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=> s kiso, yoshinobu?/au
L1 86 KISO, YOSHINOBU?/AU

=> s l1 not py>1998
L2 55 L1 NOT PY>1998

=> d l2 1-55

L2 ANSWER 1 OF 55 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 1997:349220 BIOSIS
DN PREV199799648423
TI Substituted 3-(phenylsulfonyl)-1-phenylimidazolidine-2,4-dione
derivatives
as novel nonpeptide inhibitors of human heart chymase.
AU Niwata, Shinjiro; Fukami, Harukazu (1); Sumida, Motoo; Ito, Akiko;
Kakutani, Saki; Saitoh, Masayuki; Suzuki, Kenji; Imoto, Masahiro;
Shibata,
Hiroshi; Imajo, Seiichi; **Kiso, Yoshinobu**; Tanaka, Takaharu;
Nakazato, Hiroshi; Ishihara, Takafumi; Takai, Shinji; Yamamoto, Daisuke;
Shiota, Naotaka; Miyazaki, Mizuo; Okunishi, Hideki; Kinoshita, Akio;
Urata, Hidenori; Arakawa, Kikuo
CS (1) Inst. Biomed. Res., Suntory Ltd., 1-1-1 Wakayamadai, Shimamoto-cho,
Mishima-gun, Osaka 618 Japan
SO Journal of Medicinal Chemistry, (1997) Vol. 40, No. 14, pp. 2156-2163.
ISSN: 0022-2623.
DT Article
LA English

L2 ANSWER 2 OF 55 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 1996:81399 BIOSIS
DN PREV199698653534
TI Camelliatannin D, a new inhibitor of bone resorption, from Camellia
japonica.
AU Hatano, Tsutomu; Han, Li; Taniguchi, Shoko; Okuda, Takuo; **Kiso,**
Yoshinobu; Tanaka, Takaharu; Yoshida, Takashi (1)
CS (1) Faculty Pharmaceutical Sciences, Okayama Univ., Tsushima, Okayama 700
Japan
SO Chemical & Pharmaceutical Bulletin (Tokyo), (1995) Vol. 43, No. 11, pp.
2033-2035.
ISSN: 0009-2353.
DT Article

LA English

L2 ANSWER 3 OF 55 CAPLUS COPYRIGHT 2002 ACS

AN 1999:24055 CAPLUS

DN 130:124343

TI Eicosatrienoic acid for inhibiting intestinal ulcer in rats

AU Yoshida, Hiroshi; Chen, Kai; Santo, Kinya; Wasa, Katsushi; Takagi, Yoji;
Okada, Masasni; **Kiso, Yoshinobu**

CS Department of Pediatric Surgery, Osaka University, Japan

SO Shoka to Kyushu (1998), 21(1), 27

CODEN: SHKYEZ; ISSN: 0389-3626

PE Nippon Shoka Kyushu Gakkai

DT Journal

LA Japanese

L2 ANSWER 4 OF 55 CAPLUS COPYRIGHT 2002 ACS

AN 1998:793594 CAPLUS

DN 130:191263

TI Liver protective and antioxidative roles of sesamin

AU **Kiso, Yoshinobu**

CS Basic Research Laboratory, Suntory Ltd., Japan

SO Food Style 21 (1998), 2(12), 35-38

CODEN: FSTYFF

PE Shokuhin Kagaku Shinbunsha

DT Journal; General Review

LA Japanese

L2 ANSWER 5 OF 55 CAPLUS COPYRIGHT 2002 ACS

AN 1998:712458 CAPLUS

DN 129:302077

TI Antiobesity foods and beverages containing xylooligosaccharides

IN Iino, Taeko; Nakahara, Koichi; Nishijima, Yasushi; Kusumoto, Akira;

Kiso, Yoshinobu

PA Suntory, Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10290681	A2	19981104	JP 1997-101916	19970418

L2 ANSWER 6 OF 55 CAPLUS COPYRIGHT 2002 ACS

AN 1997:436009 CAPLUS

DN 127:44462

TI Substituted 3-(Phenylsulfonyl)-1-phenylimidazolidine-2,4-dione

Derivatives

as Novel Nonpeptide Inhibitors of Human Heart Chymase

AU Niwata, Shinjiro; Fukami, Harukazu; Sumida, Motoo; Ito, Akiko; Kakutani,
Saki; Saitoh, Masayuki; Suzuki, Kenji; Imoto, Masahiro; Shibata, Hiroshi;
Imajo, Seiichi; **Kiso, Yoshinobu**; Tanaka, Takaharu; Nakazato,
Hiroshi; Ishihara, Takafumi; Takai, Shinji; Yamamoto, Daisuke; Shiota,
Naotaka; Miyazaki, Mizuo; Okunishi, Hideki; Kinoshita, Akio; Urata,
Hidenori; Arakawa, Kikuo

CS Institute for Biomedical Research, Suntory Ltd., Osaka, 618, Japan

SO J. Med. Chem. (1997), 40(14), 2156-2163

CODEN: JMCMAR; ISSN: 0022-2623

FB American Chemical Society

DT Journal

LA English

L2 ANSWER 7 OF 55 CAPLUS COPYRIGHT 2002 ACS

AN 1997:310799 CAPLUS

DN 126:293363

TI Preparation of 2-phenylsulfonyl- and 2-(heterocyclylsulfonyl)quinazoline derivatives as chymase inhibitors

IN Fukami, Harukazu; Ito, Akiko; Niwata, Shinjiro; Kakutani, Saki; Sumida, Motoo; **Kiso, Yoshinobu**

PA Suntory Limited, Japan; Fukami, Harukazu; Ito, Akiko; Niwata, Shinjiro; Kakutani, Saki; Sumida, Motoo; Kiso, Yoshinobu

SO PCT Int. Appl., 120 pp.

CODEN: PIXKD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9711941	A1	19970403	WO 1996-JP2830	19960927
	W: JP, US				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT,				
SE	EP 795548	A1	19970917	EP 1996-932039	19960927
	R: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, LU, MC, NL,				
	PT, SE				
	US 5814631	A	19980929	US 1997-849114	19970528
PPAI	JP 1995-285437		19950928		
	JP 1996-116557		19960510		
	WO 1996-JP2830		19960927		
OS	MARPAT 126:293363				

L2 ANSWER 8 OF 55 CAPLUS COPYRIGHT 2002 ACS

AN 1997:189919 CAPLUS

DN 126:212145

TI Preparation of hydantoin derivatives as cardiovascular agents

IN Fukami, Jiichi; Tsunoda, Motoo; Niwada, Shinjiro; Okada, Akiko; Sumiya, Saki; Saito, Masayuki; Suzuki, Kenji; **Kiso, Yoshinobu**

PA Suntory Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09031061	A2	19970204	JP 1995-216437	19950724
OS	MARPAT 126:212145				

L2 ANSWER 9 OF 55 CAPLUS COPYRIGHT 2002 ACS

AN 1996:67493 CAPLUS

DN 124:135711

TI Preventive and therapeutic agents for bone diseases containing gypsogenin compounds

IN **Kiso, Yoshinobu**; Kodama, Tooru; Myagawa, Katsuro; Nakahara, Koichi

PA Suntory Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07291858	A2	19951107	JP 1994-124756	19940427
OS	MARPAT 124:135711				

L2 ANSWER 10 OF 55 CAPLUS COPYRIGHT 2002 ACS
 AN 1996:67492 CAPLUS
 DN 124:165276
 TI Preventive and therapeutic agents for bone diseases containing glycyrrhetic acid compounds
 IN **Kiso, Yoshinobu**; Kodama, Tooru; Myagawa, Katsuro; Nakahara, Koichi
 PA Suntory Ltd, Japan
 SO Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07291857	A2	19951107	JP 1994-124755	19940427

L2 ANSWER 11 OF 55 CAPLUS COPYRIGHT 2002 ACS
 AN 1995:967017 CAPLUS
 DN 124:21761
 TI Camelliatannin D, a new inhibitor of bone resorption, from Camellia japonica
 AU Hatano, Tsutomu; Ha, Li; Taniguchi, Shoko; Okuda, Takuo; **Kiso, Yoshinobu**; Tanaka, Takaharu; Yoshida, Takashi
 CS Fac. Pharmaceutical Sci., Okayama Univ., Okayama, 700, Japan
 SO Chem. Pharm. Bull. (1995), 43(11), 2033-5
 CODEN: CPBTAL; ISSN: 0009-2363
 DT Journal
 LA English

L2 ANSWER 12 OF 55 CAPLUS COPYRIGHT 2002 ACS
 AN 1995:621765 CAPLUS
 DN 123:17883
 TI preparation of dipeptide derivatives for prevention or treatment of bone diseases
 IN Saito, Masayuki; Niwada, Shinjiro; Tei, Kokusai; **Kiso, Yoshinobu**
 PA Suntory Ltd, Japan
 SO Jpn. Kokai Tokkyo Koho, 8 pp.
 CODEN: JPXXAF
 DT Patent
 LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07089986	A2	19950404	JP 1993-273241	19930927
OS	MARPAT 123:17883				

L2 ANSWER 13 OF 55 CAPLUS COPYRIGHT 2002 ACS
 AN 1995:408770 CAPLUS
 DN 122:170160
 TI Hederagenins for prevention and treatment of bone diseases
 IN **Kiso, Yoshinobu**; Kodama, Tooru; Nakahara, Koichi; Myagawa, Katsuro
 PA Suntory Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06345650	A2	19941220	JP 1993-178441	19930614

L2 ANSWER 14 OF 55 CAPLUS COPYRIGHT 2002 ACS

AN 1995:392419 CAPLUS

DN 122:170179

TI Naphthalenes for prevention and treatment of bone diseases

IN **Kiso, Yoshinobu**; Kodama, Tcoru; Myagawa, Katsuro; Nakahara, Koichi

PA Suntory Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06340528	A2	19941213	JP 1993-163735	19930528

L2 ANSWER 15 OF 55 CAPLUS COPYRIGHT 2002 ACS

AN 1995:346839 CAPLUS

DN 122:105410

TI Preparation of caffeic acid amide derivatives as 12-lipoxygenase inhibitors

IN Matsuki, Shinsuke; **Kiso, Yoshinobu**; Cho, Hidetsura; Tamaoka, Mie; Murota, Seiitsu; Morita, Ikuo

PA Suntory Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 40 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06247850	A2	19940906	JP 1993-57991	19930224
OS	MARPAT 122:105410				

L2 ANSWER 16 OF 55 CAPLUS COPYRIGHT 2002 ACS

AN 1995:108086 CAPLUS

DN 122:123132

TI Polyphenols for prevention and treatment of osteoporosis or other bone disease

IN **Kiso, Yoshinobu**; Kodama, Tooru; Myagawa, Katsuro; Nakahara, Koichi

PA Suntory Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06183958	A2	19940705	JP 1992-353909	19921216

L2 ANSWER 17 OF 55 CAPLUS COPYRIGHT 2002 ACS

AN 1994:656335 CAPLUS

DN 121:256335

TI Preparation of dipeptide derivatives for treating bone diseases.

IN Higuchi, Naoki; Saitoh, Masayuki; Niwata, Shinjiro; **Kiso, Yoshinobu**; Hayashi, Yasuhiro

PA Suntory, Ltd., Japan

SO Eur. Pat. Appl., 12 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 578978	A1	19940119	EP 1993-109551	19930615
	EP 578978	B1	19970115		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT,				

SE	JP 05345754	A2	19931227	JP 1992-155115	19920615
	AT 147765	E	19970215	AT 1993-109551	19930615
	US 5399743	A	19950321	US 1993-121461	19930916

PRAI JP 1992-155115 19920615
US 1993-69371 19930601

OS CASREACT 121:256335; MARPAT 121:256335

L2 ANSWER 18 OF 55 CAPLUS COPYRIGHT 2002 ACS

AN 1994:638403 CAPLUS

DN 121:238403

TI extraction of polyphenols from plants for prevention or treatment of bone diseases.

IN **Kiso, Yoshinobu**; Kodama, Tooru; Myagawa, Katsuro; Nakahara, Koichi

PA Suntory Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06183985	A2	19940705	JP 1992-353908	19921216

L2 ANSWER 19 OF 55 CAPLUS COPYRIGHT 2002 ACS

AN 1993:671732 CAPLUS

DN 119:271732

TI Preparation of dipeptide derivatives for treatment of bone disease

IN Higuchi, Naoki; Saitoh, Masayuki; Niwata, Shinjiro; **Kiso, Yoshinobu**; Hayashi, Yasuhiro

PA Suntory, Ltd., Japan

SO Eur. Pat. Appl., 36 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 543310	A2	19930526	EP 1992-119558	19921116
	EP 543310	A3	19930721		
	EP 543310	B1	19960327		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT,				

SE

JP 05140063	A2	19930608	JP 1991-303351	19911119
US 5195824	A	19950307	US 1992 969453	19921030
AT 136025	E	19950415	AT 1992-119558	19921116
PPAI JP 1991-303351		19911119		
OS MARPAT 119:271732				

L2 ANSWER 20 OF 55 CAPLUS COPYRIGHT 2002 ACS
 AN 1993:72959 CAPLUS
 DN 118:72959
 TI Assay methods for antihepatotoxic activity
 AU **Kiso, Yoshinobu**; Hikino, Hiroshi
 CS Suntory Inst. Biomed. Res., Osaka, 618, Japan
 SO Methods Plant Biochem. (1991), 6(Assays Bioact.), 219-33
 CODEN: MPBIEY; ISSN: 1059-7522
 DT Journal; General Review
 LA English

L2 ANSWER 21 OF 55 CAPLUS COPYRIGHT 2002 ACS
 AN 1992:658229 CAPLUS
 DN 117:258229
 TI Prophylactic and therapeutic agents for bone diseases comprising di- or tripeptide derivatives as active ingredients
 IN **Kiso, Yoshinobu**; Hayashi, Yasuhiro; Higuchi, Naoki; Saitoh, Masayuki; Hashimoto, Masaki
 PA Suntory, Ltd., Japan
 SO Eur. Pat. Appl., 13 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 504938	A2	19920923	EP 1992-104920	19920320
	EP 504939	A3	19930414		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, PT, SE				
	JP 05155764	A2	19930622	JP 1991-59182	19910322
	JP 05178758	A2	19930720	JP 1991-59185	19910322
PRAI	JP 1991-59182		19910322		
	JP 1991-59185		19910322		
OS	MARPAT 117:258229				

L2 ANSWER 22 OF 55 CAPLUS COPYRIGHT 2002 ACS
 AN 1992:143873 CAPLUS
 DN 116:143873
 TI Preparation of thiazolidines and glycation inhibitors containing them
 IN Sumoto, Fumihiro; Miyano, Seiji; Tatsuoka, Toshio; **Kiso, Yoshinobu**
 PA Suntory, Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JPKXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 03261772	A2	19911121	JP 1990-59490	19900309
OS	MARPAT 116:143873				

L2 ANSWER 23 OF 55 CAPLUS COPYRIGHT 2002 ACS
 AN 1991:185122 CAPLUS
 DN 114:185122

TI Novel caffeic acid derivatives: extremely potent inhibitors of
 12 lipoxygenase
 AU Cho, Hidetsura; Ueda, Masaru; Tamaoka, Mie; Hamaguchi, Mikiko; Aisaka,
 Kazuo; **Kiso, Yoshinobu**; Inoue, Teruyoshi; Ogino, Ryoko;
 Tatsuoka, Toshio; et al.
 CS Suntory Inst. Biomed. Res., Osaka, 618, Japan
 SO J. Med. Chem. (1991), 34(4), 1503-5
 CODEN: JMCMAR; ISSN: 0022-2623
 DT Journal
 LA English
 OS CASREACT 114:185122

L2 ANSWER 24 OF 55 CAPLUS COPYRIGHT 2002 ACS
 AN 1988:215711 CAPLUS
 DN 108:215711
 TI Validity of Oriental medicines. Part 121. Liver-protecting drugs. Part
 36.
 Assay method for antihepatotoxic activity using macrophage-mediated
 cytotoxicity in primary cultured hepatocytes
 AU **Kiso, Yoshinobu**; Kato, Shinsuke; Kawakami, Yutaka; Hikino,
 Hiroshi
 CS Pharm. Inst., Tohoku Univ., Sendai, Japan
 SO Phytother. Res. (1987), 1(2), 61-4
 CODEN: PHYREH
 DT Journal
 LA English

L2 ANSWER 25 OF 55 CAPLUS COPYRIGHT 2002 ACS
 AN 1987:570017 CAPLUS
 DN 107:170017
 TI Assay method for antihepatotoxic activity using complement-mediated
 cytotoxicity in primary cultured hepatocytes
 AU **Kiso, Yoshinobu**; Kawakami, Yutaka; Kikuchi, Kumiko; Hikino,
 Hiroshi
 CS Pharm. Inst., Tohoku Univ., Sendai, 980, Japan
 SO Planta Med. (1987), 53(3), 241-7
 CODEN: PLMEAA; ISSN: 0032-0943
 DT Journal
 LA English

L2 ANSWER 26 OF 55 CAPLUS COPYRIGHT 2002 ACS
 AN 1987:114832 CAPLUS
 DN 106:114832
 TI Antihepatotoxic drugs. Part 32. Antihepatotoxic principles of Wedelia
 chinensis herbs
 AU Yang, Ling Ling; Yen, Kun Ying; Konno, Chohachi; Oshima, Yoshiteru;
Kiso, Yoshinobu; Hikino, Hiroshi
 CS Taipei Med. Coll., Taipei, Taiwan
 SO Planta Med. (1986), (6), 499-500
 CODEN: PLMEAA; ISSN: 0032-0943
 DT Journal
 LA English

L2 ANSWER 27 OF 55 CAPLUS COPYRIGHT 2002 ACS
 AN 1987:12713 CAPLUS
 DN 106:12713
 TI Coumestans as the main active principles of the liver drugs Eclipta alba
 and Wedelia calendulacea
 AU Wagner, Hildebert; Geyer, Bettina; **Kiso, Yoshinobu**; Hikino,
 Hiroshi; Rao, Govind S.

CS Inst. Pharm. Biol., Univ. Muenchen, Munich, D-8000/2, Fed. Rep. Ger.
SQ Planta Med. (1986), (5), 370-4
CODEN: PLMEAA; ISSN: 0032-0943
DT Journal
LA English

L2 ANSWER 28 OF 55 CAPLUS COPYRIGHT 2002 ACS
AN 1986:546180 CAPLUS
DN 105:146180
TI Oriental medicines. Part 108. Liver protective drugs. Part 29.
Antihepatotoxic actions of Allium sativum bulbs
AU Hikino, Hiroshi; Tohkin, Masahiro; **Kiso, Yoshinobu**; Namiki,
Tsuneo; Nishimura, Shoji; Takeyama, Kimori
CS Pharm. Inst., Tohoku Univ., Sendai, 980, Japan
SQ Planta Med. (1986), (3), 163-8
CODEN: PLMEAA; ISSN: 0032-0943
DT Journal
LA English

L2 ANSWER 29 OF 55 CAPLUS COPYRIGHT 2002 ACS
AN 1986:454578 CAPLUS
DN 105:54578
TI Liver-protective drugs. Part 30. Drugs for liver therapy. Part 12.
Isobutrin and butrin, the antihepatotoxic principles of Butea monosperma
flowers
AU Wagner, Hildebert; Geyer, Bettina; Fiebig, Manfred; **Kiso,**
Yoshinobu; Hikino, Hiroshi
CS Inst. Pharm. Biol., Univ. Munich, Munich, D-8000/2, Fed. Rep. Ger.
SQ Planta Med. (1986), (2), 77-9
CODEN: PLMEAA; ISSN: 0032-0943
DT Journal
LA English

L2 ANSWER 30 OF 55 CAPLUS COPYRIGHT 2002 ACS
AN 1986:81514 CAPLUS
DN 104:81514
TI Antihepatotoxic actions of gingerols and diarylheptanoids
AU Hikino, Hiroshi; **Kiso, Yoshinobu**; Kato, Nobuharu; Hamada,
Yasumasa; Shioiri, Takayuki; Aiyama, Ritsuo; Itokawa, Hideji; Kiuchi,
Fumiyuki; Sankawa, Ushio
CS Pharm. Inst., Tohoku Univ., Sendai, Japan
SQ J. Ethnopharmacol. (1985), 14(1), 31-9
CODEN: JOETD7; ISSN: 0378-8741
DT Journal
LA English

L2 ANSWER 31 OF 55 CAPLUS COPYRIGHT 2002 ACS
AN 1986:62041 CAPLUS
DN 104:62041
TI Assay method for antihepatotoxic activity using ionophore A23187 induced
cytotoxicity in primary cultured hepatocytes
AU **Kiso, Yoshinobu**; Tohkin, Masahiro; Hikino, Hiroshi
CS Pharm. Inst., Tohoku Univ., Sendai, 980, Japan
SQ Shoyakugaku Zasshi (1985), 39(3), 218-22
CODEN: SHZAA7; ISSN: 0037-4377
DT Journal
LA English

L2 ANSWER 32 OF 55 CAPLUS COPYRIGHT 2002 ACS
AN 1986:62032 CAPLUS

DN 104:62032
 TI Validity of oriental medicines. Part 84. Tohoku University series on liver-protective drugs. Part 4. Okayama University series on the effects of the interaction of tannins with coexisting substances. Part 4. Antihepatotoxic actions of tannins
 AU Hikino, Hiroshi; **Kiso, Yoshinobu**; Hatano, Tsutomu; Yoshida, Takashi; Okuda, Takuo
 CS Pharm. Inst., Tohoku Univ., Sendai, Japan
 SO J. Ethnopharmacol. (1985), 14(1), 19-29
 CODEN: JOETD7; ISSN: 0378-8741
 DT Journal
 LA English

L2 ANSWER 33 OF 55 CAPLUS COPYRIGHT 2002 ACS
 AN 1986:28822 CAPLUS
 DN 104:28822
 TI Antihepatotoxic principles of Phyllanthus niruri herbs
 AU Syamasundar, Kodakandla Venkata; Singh, Bikram; Thakur, Raghunath Singh; Husain, Akhtar; **Kiso, Yoshinobu**; Hikino, Hiroshi
 CS Cent. Inst. Med. Aromat. Plants, Lucknow, India
 SO J. Ethnopharmacol. (1985), 14(1), 41-4
 CODEN: JOETD7; ISSN: 0378-8741
 DT Journal
 LA English

L2 ANSWER 34 OF 55 CAPLUS COPYRIGHT 2002 ACS
 AN 1985:606499 CAPLUS
 DN 103:206499
 TI Oriental medicines. Part 97. Liver protective drugs. Part 28. Mechanism of antihepatotoxic activity of wuweizisu C and gomisin A
 AU **Kiso, Yoshinobu**; Tohkin, Masahiro; Hikino, Hiroshi; Ikeya, Yukinobu; Taguchi, Heihachiro
 CS Pharm. Inst., Tohoku Univ., Sendai, Japan
 SO Planta Med. (1985), (4), 331-4
 CODEN: PLMEAA; ISSN: 0032-0943
 DT Journal
 LA English

L2 ANSWER 35 OF 55 CAPLUS COPYRIGHT 2002 ACS
 AN 1985:554067 CAPLUS
 DN 103:154067
 TI Antihepatotoxic principles of Swertia japonica herbs
 AU Hikino, Hiroshi; **Kiso, Yoshinobu**; Kubota, Masatoshi; Hattori, Masao; Namba, Tsuneo
 CS Pharm. Inst., Tohoku Univ., Sendai, Japan
 SO Shoyakugaku Zasshi (1984), 38(4), 359-60
 CODEN: SHZAAY; ISSN: 0037-4377
 DT Journal
 LA English

L2 ANSWER 36 OF 55 CAPLUS COPYRIGHT 2002 ACS
 AN 1985:482912 CAPLUS
 DN 103:82912
 TI Validity of the Oriental medicines. 72. Liver-protective drugs. 17. Mechanism of antihepatotoxic activity of atractylon, 1: effect on free radical generation and lipid peroxidation
 AU **Kiso, Yoshinobu**; Tohkin, Masahiro; Hikino, Hiroshi
 CS Pharm. Inst., Tohoku Univ., Sendai, Japan
 SO Planta Med. (1985), (2), 97-100

CODEN: PLMEAA; ISSN: 0032 0943

DT Journal
LA English

L2 ANSWER 37 OF 55 CAPLUS COPYRIGHT 2002 ACS
AN 1985:447833 CAPLUS
DN 103:47833

TI Validity of the Oriental medicines. 73. Liver-protective drugs. 18.
Antihepatotoxic actions of ginsenosides from Panax ginseng roots
AU Hikino, Hiroshi; **Kiso, Yoshinobu**; Kinouchi, Junko; Sanada,
Shuichi; Shoji, Junzo
CS Pharm. Inst., Tohoku Univ., Sendai, Japan
SO Planta Med. (1985), (1), 62-4

CODEN: PLMEAA; ISSN: 0032-0943

DT Journal
LA English

L2 ANSWER 38 OF 55 CAPLUS COPYRIGHT 2002 ACS
AN 1985:214629 CAPLUS
DN 102:214629

TI Validity of the Oriental medicines. 68. Liver-protective drugs. 15.
Analgesic and antihepatotoxic actions of dianosides, triterpenoid
saponins

of Dianthus superbus var. longicalycinus herbs
AU Hikino, Hiroshi; Ohsawa, Takatomi; **Kiso, Yoshinobu**; Oshima,
Yoshiteru

CS Pharm. Inst., Tohoku Univ., Sendai, Japan
SO Planta Med. (1984), 50(4), 353-5
CODEN: PLMEAA; ISSN: 0032-0943

DT Journal
LA English

L2 ANSWER 39 OF 55 CAPLUS COPYRIGHT 2002 ACS
AN 1985:201124 CAPLUS
DN 102:201124

TI Structures of cleomiscosins, coumarinolignoids of Cleome viscosa seeds
AU Ray, Anil B.; Chattopadhyay, Sunil K.; Kumar, Sandeep; Konno, Chohachi;
Kiso, Yoshinobu; Hikino, Hiroshi
CS Dep. Med. Chem., Banaras Hindu Univ., Varanasi, 221005, India
SO Tetrahedron (1985), 41(1), 209-14
CODEN: TETRAB; ISSN: 0040-4020

DT Journal
LA English

L2 ANSWER 40 OF 55 CAPLUS COPYRIGHT 2002 ACS
AN 1985:197969 CAPLUS
DN 102:197969

TI Validity of the Oriental medicines. Part 74. Liver protective drugs.
Part 20. Studies on the constituents of Ephedra. Part 17.
Pharmacological actions of analogs of feruloylhistamine, an imidazole
alkaloid of Ephedra roots

AU Hikino, Hiroshi; **Kiso, Yoshinobu**; Ogata, Minoru; Konno,
Chohachi; Aisaka, Kazuo; Kubota, Hiroaki; Hirose, Nakako; Ishihara,
Takafumi

CS Pharm. Inst., Tohoku Univ., Sendai, Japan
SO Planta Med. (1984), 50(6), 478-80
CODEN: PLMEAA; ISSN: 0032-0943

DT Journal
LA English

L2 ANSWER 41 OF 55 CAPLUS COPYRIGHT 2002 ACS
 AN 1985:197530 CAPLUS
 DN 102:197530
 TI Liver-protective drugs. Part 10. Antihepatotoxic actions of flavonolignans from *Silybum marianum* fruits
 AU Hikino, Hiroshi; **Kiso, Yoshinobu**; Wagner, Hildebert; Fiebig, Manfred
 CS Pharm. Inst., Tohoku Univ., Sendai, 980. Japan
 SO Planta Med. (1984), 50(3), 248-50
 CODEN: PLMEAA; ISSN: 0032-0943
 DT Journal
 LA English

L2 ANSWER 42 OF 55 CAPLUS COPYRIGHT 2002 ACS
 AN 1985:197529 CAPLUS
 DN 102:197529
 TI Validity of the Oriental medicines. 60. Liver-protective drugs. 11. Antihepatotoxic actions of lignoids from *Schizandra chinensis* fruits
 AU Hikino, Hiroshi; **Kiso, Yoshinobu**; Taguchi, Heihachiro; Ikeya, Yukinobu
 CS Pharm. Inst., Tohoku Univ., Sendai, Japan
 SO Planta Med. (1984), 50(3), 213-18
 CODEN: PLMEAA; ISSN: 0032-0943
 DT Journal
 LA English

L2 ANSWER 43 OF 55 CAPLUS COPYRIGHT 2002 ACS
 AN 1985:197420 CAPLUS
 DN 102:197420
 TI Validity of the Oriental medicines. 88. Liver-protective drugs. 26. Assay methods for antihepatotoxic activity using peroxide-induced cytotoxicity in primary cultured hepatocytes
 AU **Kiso, Yoshinobu**; Kato, Osamu; Hikino, Hiroshi
 CS Pharm. Inst., Tohoku Univ., Sendai, Japan
 SO Planta Med. (1985), (1), 50-2
 CODEN: PLMEAA; ISSN: 0032-0943
 DT Journal
 LA English

L2 ANSWER 44 OF 55 CAPLUS COPYRIGHT 2002 ACS
 AN 1985:178740 CAPLUS
 DN 102:178740
 TI Validity of Oriental medicines. 65. Liver-protective drugs. 14. Mechanism of antihepatotoxic activity of glycyrrhizin, I: Effect on free radical generation and lipid peroxidation
 AU **Kiso, Yoshinobu**; Tohkin, Masahiro; Hikino, Hiroshi; Hattori, Masao; Sakamoto, Tatsuya; Namba, Tsuneo
 CS Pharm. Inst., Tohoku Univ., Sendai, Japan
 SO Planta Med. (1984), 50(4), 298-302
 CODEN: PLMEAA; ISSN: 0032-0943
 DT Journal
 LA English

L2 ANSWER 45 OF 55 CAPLUS COPYRIGHT 2002 ACS
 AN 1985:90939 CAPLUS
 DN 102:90939
 TI Antihepatotoxic actions of papyriogenins and papyriosides, triterpenoids of *Tetrapanax papyriferum* leaves
 AU Hikino, Hiroshi; **Kiso, Yoshinobu**; Amagaya, Sakae; Ogiwara, Yukio
 CS Pharm. Inst., Tohoku Univ., Sendai, Japan

SO J. Ethnopharmacol. (1984), 12(2), 231-5
CODEN: JOETD7; ISSN: 0378-8741
DT Journal
LA English

L2 ANSWER 46 OF 55 CAPLUS COPYRIGHT 2002 ACS
AN 1985:56094 CAPLUS
DN 102:56094
TI Liver protective drugs. 13. Antihepatotoxic principles of *Salvia plebeia*
herbs

AU Oshima, Yoshiteru; Kawakami, Yutaka; **Kiso, Yoshinobu**; Hikino, Hiroshi; Yang, Ling Ling; Yen, Kun Ying
CS Pharm. Inst., Tohoku Univ., Sendai, Japan
SO Shoyakugaku Zasshi (1984), 38(2), 201-2
CODEN: SHZAA; ISSN: 0037-4377
DT Journal
LA English

L2 ANSWER 47 OF 55 CAPLUS COPYRIGHT 2002 ACS
AN 1985:56093 CAPLUS
DN 102:56093
TI Liver protective drugs. 12. Antihepatotoxic principles of *Aeginetia indica* herbs

AU Oshima, Yoshiteru; Kawakami, Yutaka; **Kiso, Yoshinobu**; Hikino, Hiroshi; Yang, Ling Ling; Yen, Kun Ying
CS Pharm. Inst., Tohoku Univ., Sendai, Japan
SO Shoyakugaku Zasshi (1984), 38(2), 198-200
CODEN: SHZAA; ISSN: 0037-4377
DT Journal
LA English

L2 ANSWER 48 OF 55 CAPLUS COPYRIGHT 2002 ACS
AN 1984:504062 CAPLUS
DN 101:104062
TI Validity of Oriental medicines. 56. Liver-protective drugs. 10. Antihepatotoxic principles of *Artemisia capillaris* buds

AU **Kiso, Yoshinobu**; Ogasawara, Shoko; Hirota, Keiko; Watanabe, Noriko; Oshima, Yoshiteru; Konno, Chohachi; Hikino, Hiroshi
CS Pharm. Inst., Tohoku Univ., Sendai, 980, Japan
SO Planta Med. (1984), 50(1), 81-5
CODEN: PLMEAA; ISSN: 0032-0943
DT Journal
LA English

L2 ANSWER 49 OF 55 CAPLUS COPYRIGHT 2002 ACS
AN 1984:151003 CAPLUS
DN 100:151003
TI Validity of the oriental medicines. Part 53. Liver-protective drugs. Part 8. Antihepatotoxic principles of *Curcuma longa* rhizomes

AU **Kiso, Yoshinobu**; Suzuki, Yuriko; Watanabe, Noriko; Oshima, Yoshiteru; Hikino, Hiroshi
CS Pharm. Inst., Tohoku Univ., Sendai, Japan
SO Planta Med. (1983), 49(3), 185-7
CODEN: PLMEAA; ISSN: 0032-0943
DT Journal
LA English

L2 ANSWER 50 OF 55 CAPLUS COPYRIGHT 2002 ACS
AN 1984:114469 CAPLUS

DN 100:114469
 TI Validity of oriental medicines. Part 51. Liver protective drugs. Part
 6. Assay method for antihepatotoxic activity using carbon tetrachloride
 induced cytotoxicity in primary cultured hepatocytes
 AU **Kiso, Yoshinobu**; Tohkin, Masahiro; Hikino, Hiroshi
 CS Pharm. Inst., Tohoku Univ., Sendai, Japan
 SO Planta Med. (1983), 49(4), 222-5
 CODEN: PLMEAA; ISSN: 0032-0943
 DT Journal
 LA English

L2 ANSWER 51 OF 55 CAPLUS COPYRIGHT 2002 ACS
 AN 1984:74050 CAPLUS
 DN 100:74050
 TI Validity of Oriental medicines. Part 52. Liver-protective drugs. 7.
 Assay method for antihepatotoxic activity using galactosamine-induced
 cytotoxicity in primary-cultured hepatocytes
 AU **Kiso, Yoshinobu**; Tohkin, Masahiro; Hikino, Hiroshi
 CS Pharm. Inst., Tohoku Univ., Sendai, Japan
 SO J. Nat. Prod. (1983), 46(6), 841-7
 CODEN: JNPRDP; ISSN: 0163-3864
 DT Journal
 LA English

L2 ANSWER 52 OF 55 CAPLUS COPYRIGHT 2002 ACS
 AN 1983:555139 CAPLUS
 DN 99:155139
 TI Stereostructure of curlone, a sesquiterpenoid of Curcuma longa rhizomes
 AU **Kiso, Yoshinobu**; Suzuki, Yuriko; Oshima, Yoshiteru; Hikino,
 Hiroshi
 CS Pharm. Inst., Tohoku Univ., Sendai, Japan
 SO Phytochemistry (1983), 22(2), 596-7
 CODEN: PYTCAS; ISSN: 0031-9422
 DT Journal
 LA English

L2 ANSWER 53 OF 55 CAPLUS COPYRIGHT 2002 ACS
 AN 1983:27915 CAPLUS
 DN 98:27915
 TI Protective action of desoxypodophyllotoxin on D-galactosamine-induced
 liver lesion in rats
 AU **Kiso, Yoshinobu**; Konno, Chohachi; Hikino, Hiroshi; Hashimoto,
 Ichio; Wakasa, Haruki
 CS Pharm. Inst., Tohoku Univ., Sendai, Japan
 SO Chem. Pharm. Bull. (1982), 30(10), 3817-21
 CODEN: CPBTAL; ISSN: 0009-2363
 DT Journal
 LA English

L2 ANSWER 54 OF 55 CAPLUS COPYRIGHT 2002 ACS
 AN 1982:574487 CAPLUS
 DN 97:174487
 TI Validity of the Oriental medicines. Part 40. Liver-protective drugs. Part
 4. Liver-protective actions of desoxypodophyllotoxin and its analogs
 AU **Kiso, Yoshinobu**; Konno, Chohachi; Hikino, Hiroshi; Yagi, Yukiko;
 Hashimoto, Ichio
 CS Pharm. Inst., Tohoku Univ., Sendai, Japan
 SO J. Pharmacobio-Dyn. (1982), 5(8), 638-41
 CODEN: JOPHDQ; ISSN: 0386-846X
 DT Journal

LA English

L2 ANSWER 55 OF 55 CAPLUS COPYRIGHT 2002 ACS

AN 1982:550629 CAPLUS

DN 97:150629

TI Liver protective drugs. 5. Validity of the oriental medicines. Part

42. Structure of arcapillin, an antihepatotoxic principle of Artemisia
capillaris herbs

AU **Kiso, Yoshinobu**; Sasaki, Keiko; Oshima, Yoshiteru; Hikino,
Hiroshi

CS Pharm. Inst., Tohoku Univ., Sendai, Japan

SO Heterocycles (1982), 19(9), 1615-17

CODEN: HTCYAM; ISSN: 0385-5414

DT Journal

LA English

=> s hyperammonemia or blood(w)ammonia?

L3 5969 HYPERAMMONEMIA OR BLOOD(W) AMMONIA?

=> s l3 and xylobiose?

L4 1 L3 AND XYLOBIOSE?

=> s l3 and xylooligosaccharide?

L5 0 L3 AND XYLOOLIGOSACCHARIDE?

=> s l3 and xylose?

L6 2 L3 AND XYLOSE?

=> d l4 abs ibib

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS

AB **Blood ammonia**-lowering agents, remedies for
hyperammonemia, or remedies for hepatic encephalopathy without any
fear of the incidence of side effects, comprise **xylobiose** or a
xylooligosaccharide contg. **xylobiose** as the main component which
is used as a substitute for lactulose to thereby reduce administration
dose. Lactulose, which has been employed in drugs, should be

administered
in a large dose and suffers from a problem in safety when administered to
patients with galactosemia or diabetes. These problems can be solved by
the above drugs contg. **xylobiose** as the main component.

ACCESSION NUMBER: 2000:401659 CAPLUS

DOCUMENT NUMBER: 133:26861

TITLE: Remedies for **hyperammonemia**

INVENTOR(S): Kiso, Yoshinobu; Iino, Taeko; Kato, Shinzo

PATENT ASSIGNEE(S): Suntory Limited, Japan

SOURCE: PCT Int. Appl., 25 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000033850	A1	20000615	WO 1999-JP6901	19991209

W: AU, CA, US

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,

PT, SE
EP 1157697 A1 20311128 EP 1999 959718 19991209
P: AT, BE, CH, DE, DK, ES, FP, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, FI
PRIORITY APPLN. INFO.: JP 1998-351955 A 19981210
WO 1999-JP6901 W 19991209
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

=> d 16 abs ibib 1-2

L6 ANSWER 1 OF 2 MEDLINE

AB Although total diversion of portal blood flow has been considered to be the main factor leading to encephalopathy following nonselective shunt (NSS), increased intestinal absorption of cerebral toxins secondary to mesenteric venous decompression could also play a role. Conversely, the low frequency of encephalopathy after the distal splenorenal shunt (DSRS) may be due to preservation of both hepatic portal perfusion and mesenteric venous hypertension. Portal hemodynamics, intestinal absorption of D-**xylose**, ammonia metabolism, and clinical encephalopathy were assessed preoperatively and in the early and late postoperative periods in cirrhotic patients selected for the DSRS (n = 12) and NSS (n = 10). Preoperatively, NSS patients had significantly less hepatopetal portal blood flow (P = 0.03) and lower D-**xylose** absorption (P = 0.004) than DSRS patients. DSRS resulted in no significant alterations in hepatic portal perfusion, portal pressure, D-**xylose** absorption, fasting **blood ammonia** (NH₃), or tolerance to an oral dose of ammonium chloride. In contrast, NSS resulted in complete portal diversion and decompression and significant enhancement of D-**xylose** absorption on both the early (P = 0.02) and late (P = 0.03) postoperative evaluations. Early and late postoperative levels of NH₃ were significantly higher in NSS patients. Encephalopathy was more frequent after NSS (80%) than after DSRS (17%, P = 0.003). When all patients were considered, preoperative to early DSRS (17%, P = 0.003). When all patients were considered, preoperative to early postoperative change in NH₃ correlated with change in D-**xylose** absorption (r = 0.52, p = 0.02), and there were significantly more individuals with a greater than 2 gm increase in D-**xylose** absorption who developed encephalopathy (83%) than patients with no or minimal increase in D-**xylose** absorption (33%, P = 0.04). The results of this study suggest that altered intestinal absorption may be one of many factors determining postshunt cerebral function.

ACCESSION NUMBER: 83276253 MEDLINE
DOCUMENT NUMBER: 83276253 PubMed ID: 6879434
TITLE: Portal hemodynamics, intestinal absorption, and postshunt encephalopathy.
AUTHOR: Rikkers L F
CONTRACT NUMBER: 1R01AM31371 (NIADDK)
RR64 (NCRR)
SOURCE: SURGERY, (1983 Aug) 94 (2) 126-33.
Journal code: VC3; 0417347. ISSN: 0039-6060.
PUB. COUNTRY: United States
Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English
 FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals
 ENTRY MONTH: 198309
 ENTRY DATE: Entered STN: 19900319
 Last Updated on STN: 19970203
 Entered Medline: 19830909

L6 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2002 ACS

AB Pullulan (I) and dextran (II) promote the growth of bifidobacteria in humans and animals. Such promotion is effective in maintaining and improving health and beauty, as well as preventing and/or treating diseases, e.g. geriatric diseases, **hyperammonemia**, and hepatic encephalopathy. The presence of certain oligosaccharides, e.g. lactulose, greatly enhances such promotion. Thus, I and II are useful for or in health foods, pharmaceuticals, animal feeds, and pet foods. A variety of compns. are described. Pulverized corn bran 100, pullulan (mol. wt. .apprx.300,000) 100, Panorup 5 parts by wt., and an appropriate amt. of water were mixed to homogeneity, and the mixt. was granulated. The above compn. can also be tableted. Unlike sol. starch, I and II, administered to volunteers over a 14-day period, increased amt. of feces/day, bifidobacteria count/g feces, the ratio of bifidobacteria to total cell count (1.5-2 fold), total bifidobacteria count (2-4 fold); pH of the feces was decreased by 0.5-1.0. Pullulan was superior to dextran with respect to the above observations.

ACCESSION NUMBER: 1991:163008 CAPLUS
 DOCUMENT NUMBER: 114:163008
 TITLE: Compositions containing pullulan and/or dextran and their use in promoting the growth of intestinal bifidobacteria
 INVENTOR(S): Mitsuhashi, Masakazu; Yoneyama, Masaru; Sakai, Shuzo
 PATENT ASSIGNEE(S): Hayashibara Biochemical Laboratories, Inc., Japan
 SOURCE: Eur. Pat. Appl., 9 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 382355	A2	19900816	EP 1990-300548	19900118
EP 382355	A3	19911113		
EP 382355	B1	19970820		
R: DE, FR, GB, IT, SE				
JP 02289520	A2	19901129	JP 1989-322564	19891214
JP 2779963	B2	19980723		
CA 2007270	AA	19900809	CA 1990-2007270	19900105
PRIORITY APPLN. INFO.:			JP 1989-28661	19890209
			JP 1989-322564	19891214

=> s l6 and therapeutics?
 L7 0 L6 AND THERAPEUTICS?

=> s l6 and treatment?
 L8 1 L6 AND TREATMENT?

=> d l8 abs ibib

L8 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS

AB Pullulan (I) and dextran (II) promote the growth of bifidobacteria in humans and animals. Such promotion is effective in maintaining and improving health and beauty, as well as preventing and/or treating diseases, e.g. geriatric diseases, hyperammonemia, and hepatic encephalopathy. The presence of certain oligosaccharides, e.g.

lactulose,

greatly enhances such promotion. Thus, I and II are useful for or in health foods, pharmaceuticals, animal feeds, and pet foods. A variety of compns. are described. Pulverized corn bran 100, pullulan (mol. wt. .apprx.300,000) 100, Panorup 5 parts by wt., and an appropriate amt. of water were mixed to homogeneity, and the mixt. was granulated. The above compn. can also be tableted. Unlike sol. starch, I and II, administered to volunteers over a 14 day period, increased amt. of feces/day, bifidobacteria count/g feces, the ratio of bifidobacteria to total cell count (1.5-2 fold), total bifidobacteria count (2-4 fold); pH of the

feces

was decreased by 0.5-1.0. Pullulan was superior to dextran with respect to the above observations.

ACCESSION NUMBER: 1991:163008 CAPLUS

DOCUMENT NUMBER: 114:163008

TITLE: Compositions containing pullulan and/or dextran and their use in promoting the growth of intestinal bifidobacteria

INVENTOR(S): Mitsuhashi, Masakazu; Yoneyama, Masaru; Sakai, Shuzo

PATENT ASSIGNEE(S): Hayashibara Biochemical Laboratories, Inc., Japan

SOURCE: Eur. Pat. Appl., 9 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 382355	A2	19900816	EP 1990-300548	19900118
EP 382355	A3	19911113		
EP 382355	B1	19970820		
R: DE, FR, GB, IT, SE				
JP 02289520	A2	19901129	JP 1989-322564	19891214
JP 2779963	B2	19980723		
CA 2007270	AA	19900809	CA 1990-2007270	19900105
PRIORITY APPLN. INFO.:				JP 1989-28661 19890209
				JP 1989-322564 19891214

=> s 16 and lowering(w)agent?

L9 0 L6 AND LOWERING(W) AGENT?

=> s 16 and blood?

L10 1 L6 AND BLOOD?

=> d 110

L10 ANSWER 1 OF 1 MEDLINE

AN 83276253 MEDLINE

DN 83276253 PubMed ID: 6879434

TI Portal hemodynamics, intestinal absorption, and pcstshunt encephalopathy.

AU Rijkers L F
 NC 1P01AM31371 (NIADDK)
 RP64 (NCRP)
 SO SURGERY, (1983 Aug) 94 (2) 126-33.
 Journal code: VC3; 0417347. ISSN: 0039 6060.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Abridged Index Medicus Journals; Priority Journals
 EM 198309
 ED Entered STN: 19900319
 Last Updated on STN: 19970203
 Entered Medline: 19830909

=> s l6 and pharmaceutical?
 L11 1 L6 AND PHARMACEUTICAL?

=> d l11

L11 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS
 AN 1991:163008 CAPLUS
 DN 114:163008
 TI Compositions containing pullulan and/or dextran and their use in promoting the growth of intestinal bifidobacteria
 IN Mitsuhashi, Masakazu; Yoneyama, Masaru; Sakai, Shuzo
 PA Hayashibara Biochemical Laboratories, Inc., Japan
 SO Eur. Pat. Appl., 9 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 382355	A2	19900816	EP 1990-300548	19900118
	EP 382355	A3	19911113		
	EP 382355	B1	19970820		
	R: DE, FR, GB, IT, SE				
	JP 02289520	A2	19901129	JP 1989-322564	19891214
	JP 2779963	B2	19980723		
	CA 2007270	AA	19900809	CA 1990-2007270	19900105
PRAI	JP 1989-28661		19890209		
	JP 1989-322564		19891214		

=> s l6 and blood(w) ammonia(w) lowering?
 L12 0 L6 AND BLOOD(W) AMMONIA(W) LOWERING?

=> s l6 and agent?
 L13 0 L6 AND AGENT?

=> s blood(w) ammonia?
 L14 2454 BLOOD(W) AMMONIA?

=> s l14 and xylose?
 L15 1 L14 AND XYLOSE?

=> s l14 and xylobiose?
 L16 1 L14 AND XYLOBIOSE?

=> d 115

L15 ANSWER 1 OF 1 MEDLINE
AN 83276253 MEDLINE
DN 83276253 PubMed ID: 6879434
TI Portal hemodynamics, intestinal absorption, and postshunt
encephalopathy.
AU Rikkers L F
NC 1R01AM31371 (NIADDK)
RP64 (NCRR)
SO SURGERY, (1983 Aug) 94 (2) 126-33.
Journal code: VC3; 0417347. ISSN: 0039-6060.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Abridged Index Medicus Journals; Priority Journals
EM 198309
ED Entered STN: 19900319
Last Updated on STN: 19970203
Entered Medline: 19830909

=> d 116

L16 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS
AN 2000:401659 CAPLUS
DN 133:26861
TI Remedies for hyperammonemia
IN Kiso, Yoshinobu; Iino, Taeko; Kato, Shinzo
PA Suntory Limited, Japan
SO PCT Int. Appl., 25 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000033850	A1	20000615	WO 1999-JP6901	19991209
	W: AU, CA, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 1157697	A1	20011128	EP 1999-959718	19991209
	F: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
PRAI	JP 1998-351955	A	19981210		
	WO 1999-JP6901	W	19991209		
RE.CNT	6	THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT			

=> s 114 and treatment?

L17 411 L14 AND TREATMENT?

=> d 117 not py>1997

'NOT' IS NOT A VALID FORMAT

'PY>1997' IS NOT A VALID FORMAT

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PEENTEP DISPLAY FORMAT FOR ALL FILES (FILEDEFAULT):end

=> s 117 not py:1997
L18 320 L17 NOT PY:1997

=> d 118 1-50

L18 ANSWER 1 OF 320 MEDLINE
AN 1998044486 MEDLINE
DN 98044486 PubMed ID: 9383349
TI Hepatic coma recovered after interventional obliteration for
ileocecal-inferior vena cava shunt--report of one case.
AU Sawano T; Kawashima T; Takase Y; Chikamori F; Shibuya S; Fukao K
CS Department of Surgery, Tsukuba Soai Hospital.
SO WIADOMOSCI LEKARSKIE, (1997) 50 Suppl 1 Pt 1 296-7.
Journal code: 9705467. ISSN: 0043-5147.
CY Poland
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199801
ED Entered STN: 19980206
Last Updated on STN: 20020220
Entered Medline: 19980129

L18 ANSWER 2 OF 320 MEDLINE
AN 97468050 MEDLINE
DN 97468050 PubMed ID: 9327194
TI Rifaximin, a non-absorbable rifamycin, for the **treatment** of
hepatic encephalopathy. A double-blind, randomised trial.
AU Miglio F; Valpiani D; Rossellini S R; Ferrieri A
CS Service of First Aid and Emergency Medicine, St Orsola Hospital, Bologna,
Italy.
SO CURRENT MEDICAL RESEARCH AND OPINION, (1997) 13 (10) 593-601.
Journal code: DUX; 0351014. ISSN: 0300-7995.
CY ENGLAND: United Kingdom
DT (CLINICAL TRIAL)
Journal; Article; (JOURNAL ARTICLE)
(MULTICENTER STUDY)
(RANDOMIZED CONTROLLED TRIAL)
LA English
FS Priority Journals
EM 199711
ED Entered STN: 19971224
Last Updated on STN: 19971224
Entered Medline: 19971106

L18 ANSWER 3 OF 320 MEDLINE
AN 97455258 MEDLINE
DN 97455258 PubMed ID: 9309629
TI Pre-exercise branched-chain amino acid administration increases endurance
performance in rats.
AU Calders P; Pannier J L; Matthys D M; Lacroix E M
CS Laboratory of Normal and Pathological Physiology, University of Gent,
Belgium.
SO MEDICINE AND SCIENCE IN SPORTS AND EXERCISE, (1997 Sep) 29 (9) 1182-6.
Journal code: MG8; 8005433. ISSN: 0195-9131.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)

LA English
FS Priority Journals
EM 199710
ED Entered STN: 19971224
Last Updated on STN: 19971224
Entered Medline: 19971030

L18 ANSWER 4 OF 320 MEDLINE
AN 97329239 MEDLINE
DN 97329239 PubMed ID: 9185752
TI Therapeutic efficacy of L-ornithine-L-aspartate infusions in patients
with cirrhosis and hepatic encephalopathy: results of a placebo-controlled,
double-blind study.
AU Kircheis G; Nilius R; Held C; Berndt H; Buchner M; Gortelmeyer R;
Hendricks R; Kruger B; Kuklinski B; Meister H; Otto H J; Rink C; Rosch W;
Stauch S
CS Martin-Luther-University Halle-Wittenberg, Department of Internal
Medicine, Germany.
SO HEPATOLOGY, (1997 Jan) 25 (6) 1351-60.
Journal code: GBZ; 3302946. ISSN: 0270-9139.
CY United States
DT (CLINICAL TRIAL)
Journal; Article; (JOURNAL ARTICLE)
(MULTICENTER STUDY)
(RANDOMIZED CONTROLLED TRIAL)
LA English
FS Priority Journals
EM 199707
ED Entered STN: 19970724
Last Updated on STN: 19970724
Entered Medline: 19970714

L18 ANSWER 5 OF 320 MEDLINE
AN 97206040 MEDLINE
DN 97206040 PubMed ID: 9148009
TI L-ornithine vs. L-ornithine-L-aspartate as a **treatment** for
hyperammonemia-induced encephalopathy in rats.
AU Vogels B A; Karlsten O T; Mass M A; Bovee W M; Chamuleau R A
CS University of Amsterdam, Department of Experimental Internal Medicine,
The Netherlands.
SO JOURNAL OF HEPATOLOGY, (1997 Jan) 26 (1) 174-82.
Journal code: IBS; 8503886. ISSN: 0168-8278.
CY Denmark
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199705
ED Entered STN: 19970523
Last Updated on STN: 19970523
Entered Medline: 19970509

L18 ANSWER 6 OF 320 MEDLINE
AN 96371822 MEDLINE
DN 96371822 PubMed ID: 9775645
TI Blood lactate and ammonia in short-term anaerobic work following induced
alkalosis.
AU Ibanez J; Pullinen T; Gorostiaga E; Postigo A; Mero A
CS Centro de Investigacion y Medicina del Deporte, Instituto Navarro de

Deporte y Juventud, Gobierno de Navarra, Pamplona, Spain.
SO JOURNAL OF SPORTS MEDICINE AND PHYSICAL FITNESS, (1995 Sep) 35 (3)
187 93.

Journal code: K6V; 0376337. ISSN: 0022-4707.

CY Italy
DT (CLINICAL TRIAL)
Journal; Article; (JOURNAL ARTICLE)
(RANDOMIZED CONTROLLED TRIAL)
LA English
FS Priority Journals
EM 199612
ED Entered STN: 19970128
Last Updated on STN: 19970128
Entered Medline: 19961206

L18 ANSWER 7 OF 320 MEDLINE

AN 96369529 MEDLINE

DN 96369529 PubMed ID: 8773535

TI Studies on ammonia-metabolizing enzymes during Plasmodium yoelii
infection

and pyrimethamine **treatment** in mice.

AU Agrawal A; Tripathi L M; Puri S K; Pandey V C

CS Division of Biochemistry, Central Drug Research Institute, Lucknow,
India.

SO INTERNATIONAL JOURNAL FOR PARASITOLOGY, (1996 Apr) 26 (4) 451-5.
Journal code: GSB; 0314024. ISSN: 0020-7519.

CY ENGLAND: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199610
ED Entered STN: 19961025
Last Updated on STN: 19980206
Entered Medline: 19961011

L18 ANSWER 8 OF 320 MEDLINE

AN 96138894 MEDLINE

DN 96138894 PubMed ID: 8530808

TI Long-term effects of Enterococcus faecium SF68 versus lactulose in the
treatment of patients with cirrhosis and grade 1-2 hepatic
encephalopathy.

AU Loguercio C; Abbiati R; Rinaldi M; Romano A; Del Vecchio Blanco C;
Coltorti M

CS Cattedra di Gastroenterologia, Facolta di Medicina e Chirurgia, II
Universita di Napoli, Italy.

SO JOURNAL OF HEPATOLOGY, (1995 Jul) 23 (1) 39-46.
Journal code: IBS; 8503886. ISSN: 0168-8278.

CY Denmark
DT (CLINICAL TRIAL)
Journal; Article; (JOURNAL ARTICLE)
(RANDOMIZED CONTROLLED TRIAL)
LA English
FS Priority Journals
EM 199601
ED Entered STN: 19960120
Last Updated on STN: 19960220
Entered Medline: 19960131

L18 ANSWER 9 OF 320 MEDLINE

AN 96107796 MEDLINE

DN 96107796 PubMed ID 3555710
 TI Surgical **treatment** of an enormous aneurysmal portahepatic venous
 fistula: report of a case.
 AU Miyauchi A; Okada S; Hashimoto T; Wakabayashi H; Maeba T; Tanaka S;
 Hayashi H
 CS First Department of Surgery, Kagawa Medical School, Japan.
 SO SURGERY TODAY, (1995) 25 (9) 855-8. Ref: 11
 Journal code: BFY; 9204350. ISSN: 0941-1291.
 CY Japan
 DT Journal; Article; (JOURNAL ARTICLE)
 General Review; (REVIEW)
 (REVIEW OF REPORTED CASES)
 LA English
 FS Priority Journals
 EM 199602
 ED Entered STN: 19960312
 Last Updated on STN: 19960312
 Entered Medline: 19960227

L18 ANSWER 10 OF 320 MEDLINE
 AN 96039207 MEDLINE
 DN 96039207 PubMed ID: 7579738
 TI Hyperalbuminemia associated with liver transplantation and acute renal
 failure.
 AU Erasmus R T; Kusnir J; Stevenson W C; Lobo P; Herman M M; Wills M R;
 Savory J
 CS Department of Pathology, University of Virginia Health Sciences Center,
 Charlottesville 22908, USA.
 SO CLINICAL TRANSPLANTATION, (1995 Aug) 9 (4) 307-11.
 Journal code: BB5; 8710240. ISSN: 0902-0063.
 CY Denmark
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 199512
 ED Entered STN: 19960124
 Last Updated on STN: 19970203
 Entered Medline: 19951215

L18 ANSWER 11 OF 320 MEDLINE
 AN 95404686 MEDLINE
 DN 95404686 PubMed ID: 7674372
 TI Hyperammonemia increases serotonin 1A receptor expression in both rat
 hippocampus and a transfected hippocampal cell line, HN2-5.
 AU Alexander J J; Banerjee P; Dawson G; Tonsgard J H
 CS Dept. of Pediatrics, University of Chicago, IL 60637, USA.
 NC HD 06426 (NICHD)
 SO JOURNAL OF NEUROSCIENCE RESEARCH, (1995 May 1) 41 (1) 105-10.
 Journal code: KAC; 7600111. ISSN: 0360-4012.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 199510
 ED Entered STN: 19951026
 Last Updated on STN: 19951026
 Entered Medline: 19951017

L18 ANSWER 12 OF 320 MEDLINE
 AN 95375901 MEDLINE

DN 95375901 PubMed ID: 7647902
 TI Effect of biotin on ammonia intoxication in rats and mice.
 AU Nagamine T; Saito S; Kaneko M; Sekiguchi T; Sugimoto H; Takehara K;
 Takagi
 H
 CS First Department of Internal Medicine, Gunma University School of
 Medicine, Maebashi, Japan.
 SO JOURNAL OF GASTROENTEROLOGY, (1995 Jun) 30 (3) 351-5.
 Journal code: BWP; 9430794. ISSN: 0944-1174.
 CY Japan
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 199509
 ED Entered STN: 19951005
 Last Updated on STN: 19980206
 Entered Medline: 19950928

L18 ANSWER 13 OF 320 MEDLINE
 AN 95334797 MEDLINE
 DN 95334797 PubMed ID: 7610459
 TI Alteration of ammonia and carnitine levels in short-term **treatment**
 with pivalic acid-containing prodrug.
 AU Ito T; Sugiyama N; Kobayashi M; Kidouchi K; Itoh T; Uemura O; Sugiyama K;
 Togari H
 CS Department of Pediatrics, Nagoya City University Medical School.
 SO TOHOKU JOURNAL OF EXPERIMENTAL MEDICINE, (1995 Jan) 175 (1) 43-53.
 Journal code: VTF; 0417355. ISSN: 0040-8727.
 CY Japan
 DT (CLINICAL TRIAL)
 Journal; Article; (JOURNAL ARTICLE)
 (RANDOMIZED CONTROLLED TRIAL)
 LA English
 FS Priority Journals
 EM 199508
 ED Entered STN: 19950828
 Last Updated on STN: 19950828
 Entered Medline: 19950816

L18 ANSWER 14 OF 320 MEDLINE
 AN 95278983 MEDLINE
 DN 95278983 PubMed ID: 7759146
 TI Evaluation of the BioLogic-DT sorbent-suspension dialyser in patients
 with
 fulminant hepatic failure.
 AU Hughes R D; Pucknell A; Routley D; Langley P G; Wendon J A; Williams R
 CS Institute of Liver Studies, King's College Hospital, London, UK.
 SO INTERNATIONAL JOURNAL OF ARTIFICIAL ORGANS, (1994 Dec) 17 (12) 657-62.
 Journal code: CQO; 7807649. ISSN: 0391-3988.
 CY Italy
 DT (CLINICAL TRIAL)
 Journal; Article; (JOURNAL ARTICLE)
 (RANDOMIZED CONTROLLED TRIAL)
 LA English
 FS Priority Journals
 EM 199506
 ED Entered STN: 19950707
 Last Updated on STN: 19950707
 Entered Medline: 19950629

L18 ANSWER 15 OF 370 MEDLINE
 AN 95227958 MEDLINE
 DN 95227958 PubMed ID: 7712392
 TI **Treatment** of porto-systemic encephalopathy with lactitol versus lactulose: a randomized controlled study.
 AU Pai C H; Huang Y S; Jeng W C; Chan C Y; Lee S D
 CS Department of Medicine, Veterans General Hospital Taipei, Taiwan, R.O.C.
 SO CHUNG-HUA I HSUEH TSA CHIH [CHINESE MEDICAL JOURNAL], (1995 Jan) 55 (1) 31-6.
 Journal code: CHQ; 0005327. ISSN: 0578 1337.
 CY TAIWAN: Taiwan, Province of China
 DT (CLINICAL TRIAL)
 Journal; Article; (JOURNAL ARTICLE)
 (RANDOMIZED CONTROLLED TRIAL)
 LA English
 FS Priority Journals
 EM 199505
 ED Entered STN: 19950524
 Last Updated on STN: 19950524
 Entered Medline: 19950518

L18 ANSWER 16 OF 320 MEDLINE
 AN 95213558 MEDLINE
 DN 95213558 PubMed ID: 7699233
 TI Effects of long-term administration of low-dose lactitol in patients with cirrhosis but without overt encephalopathy.
 AU Salerno F; Moser P; Maggi A; Vitaliani G; Benetti G
 CS Istituto di Medicina Interna, Universita di Milano, Italy.
 SO JOURNAL OF HEPATOLOGY, (1994 Dec) 21 (6) 1092-6.
 Journal code: IBS; 8503886. ISSN: 0168-8278.
 CY Denmark
 DT (CLINICAL TRIAL)
 (CONTROLLED CLINICAL TRIAL)
 Journal; Article; (JOURNAL ARTICLE)
 (RANDOMIZED CONTROLLED TRIAL)
 LA English
 FS Priority Journals
 EM 199505
 ED Entered STN: 19950510
 Last Updated on STN: 19990129
 Entered Medline: 19950503

L18 ANSWER 17 OF 320 MEDLINE
 AN 95145258 MEDLINE
 DN 95145258 PubMed ID: 7842973
 TI Anastomotic coarctation in the **treatment** of serious encephalopathy following splenosystemic shunt.
 AU Xue H Z; Lu Z X; Jiang Q F
 CS Henan Provincial People's Hospital, Zhengzhou.
 SO CHUNG-HUA WAI KO TSA CHIH [CHINESE JOURNAL OF SURGERY], (1994 Jul) 32 (7) 398-9.
 Journal code: D86; 0153611. ISSN: 0529-5815.
 CY China
 DT Journal; Article; (JOURNAL ARTICLE)
 LA Chinese
 FS Priority Journals
 EM 199503
 ED Entered STN: 19950316
 Last Updated on STN: 19950316
 Entered Medline: 19950307

L13 ANSWER 18 OF 320 MEDLINE
 AN 95008467 MEDLINE
 DN 95008467 PubMed ID: 7923999
 TI Effect of acute lactulose administration on serum acetate levels in cirrhosis.
 AU Fernandes J; Morali G; Wolever T M; Blendis L M; Koc M; Jenkins D J; Rao A
 V
 CS Department of Nutritional Sciences, Faculty of Medicine, Toronto Hospital, University of Toronto, Ontario.
 SO CLINICAL AND INVESTIGATIVE MEDICINE. MEDECINE CLINIQUE ET EXPERIMENTALE, (1994 Jun) 17 (3) 218-25.
 Journal code: DFG; 7804071. ISSN: 0147-958X.
 CY Canada
 DT (CLINICAL TRIAL)
 (CONTROLLED CLINICAL TRIAL)
 Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 199410
 ED Entered STN: 19941222
 Last Updated on STN: 19990129
 Entered Medline: 19941028

L18 ANSWER 19 OF 320 MEDLINE
 AN 94361648 MEDLINE
 DN 94361648 PubMed ID: 8080406
 TI Congenital portosystemic shunts in Maltese and Australian cattle dogs.
 AU Tisdall P L; Hunt G B; Bellenger C R; Malik R
 CS Veterinary Cardiovascular Unit, University of Sydney, New South Wales.
 SO AUSTRALIAN VETERINARY JOURNAL, (1994 Jun) 71 (6) 174-8.
 Journal code: 9IE; 0370616. ISSN: 0005-0423.
 CY Australia
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 199410
 ED Entered STN: 19941013
 Last Updated on STN: 19941013
 Entered Medline: 19941004

L18 ANSWER 20 OF 320 MEDLINE
 AN 94194657 MEDLINE
 DN 94194657 PubMed ID: 8145365
 TI An experience of transjugular intrahepatic portosystemic shunt in the **treatment** of gastroesophageal varices.
 AU Matsuzaka S; Kanazawa H; Kobayashi M; Kumazaki T
 CS Third Department of Internal Medicine, Nippon Medical School.
 SO NIPPON SHOKAKIBYO GAKKAI ZASSHI. JAPANESE JOURNAL OF GASTROENTEROLOGY, (1994 Mar) 91 (3) 257-66.
 Journal code: KJY; 2984683R. ISSN: 0446-6586.
 CY Japan
 DT Journal; Article; (JOURNAL ARTICLE)
 LA Japanese
 FS Priority Journals
 EM 199405
 ED Entered STN: 19940511
 Last Updated on STN: 19940511

Entered Medline: 19940504

L18 ANSWER 21 OF 320 MEDLINE
AN 94155777 MEDLINE
DN 94155777 PubMed ID: 8112241
TI Effects of valproate and citrulline on ammonium induced encephalopathy.
AU Stephens J R; Levy R H
CS Department of Pharmaceutics, University of Washington, Seattle 98195.
SO EPILEPSIA, (1994 Jan-Feb) 35 (1) 164-71.
Journal code: EIX; 2983306R. ISSN: 0013-9580.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199403
ED Entered STN: 19940406
Last Updated on STN: 19940406
Entered Medline: 19940325

L18 ANSWER 22 OF 320 MEDLINE
AN 94070444 MEDLINE
DN 94070444 PubMed ID: 8249670
TI Paroxystic neuropsychological symptoms as the early expression of hepatic encephalopathy. A case report.
CM Erratum in: Acta Neurol (Napoli) 1993 Oct;15(5):preceding 321
AU Abts H; Crols R; Marien P; Saerens J; Holvoet J; de Deyn P
CS Department of Neurology, General Hospital Middelheim, Antwerp, Belgium.
SO ACTA NEUROLOGICA, (1993 Aug) 15 (4) 268-76.
Journal code: 19Y; 0421100. ISSN: 0001-6276.
CY Italy
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199312
ED Entered STN: 19940201
Last Updated on STN: 19950206
Entered Medline: 19931228

L18 ANSWER 23 OF 320 MEDLINE
AN 94050346 MEDLINE
DN 94050346 PubMed ID: 8232725
TI High ammonia diet: its effect on the glial fibrillary acidic protein (GFAP).
AU Bodega G; Suarez I; Boyano M C; Rubio M; Villalba R M; Arilla E; Gonzalez-Guijarro L; Fernandez B
CS Departamento de Biologia Celular y Genetica, Universidad de Alcala, Madrid, Spain.
SO NEUROCHEMICAL RESEARCH, (1993 Sep) 18 (9) 971-5.
Journal code: NX9; 7613461. ISSN: 0364-3190.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199312
ED Entered STN: 19940117
Last Updated on STN: 19940117
Entered Medline: 19931207

L18 ANSWER 24 OF 320 MEDLINE
AN 94025503 MEDLINE

DN 94025503 PubMed ID: 8212501
 TI Idiopathic hepatic fibrosis in 15 dogs.
 AU Putgers H C; Haywood S; Kelly D F
 CS Department of Small Animal Medicine and Surgery, Royal Veterinary
 College,
 Hatfield, Hertfordshire.
 SO VETERINARY RECORD, (1993 Jul 31) 133 (5) 115-8.
 Journal code: XBS; 0011764. ISSN: 0042-4900.
 CY ENGLAND: United Kingdom
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 199310
 ED Entered STN: 19940117
 Last Updated on STN: 19980206
 Entered Medline: 19931029

L18 ANSWER 25 OF 320 MEDLINE
 AN 93282907 MEDLINE
 DN 93282907 PubMed ID: 8507384
 TI Changes in the cytoplasmic (lactate dehydrogenase) and plasma membrane
 (acetylcholinesterase) marker enzymes in the synaptic and nonsynaptic
 mitochondria derived from rats with moderate hyperammonemia.
 AU Faff-Michalak L; Albrecht J
 CS Department of Neuropathology, Polish Academy of Sciences, Warsaw.
 SO MOLECULAR AND CHEMICAL NEUROPATHOLOGY, (1993 Apr) 18 (3) 257-65.
 Journal code: AB3; 8910358. ISSN: 1044-7393.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 199307
 ED Entered STN: 19930723
 Last Updated on STN: 19930723
 Entered Medline: 19930712

L18 ANSWER 26 OF 320 MEDLINE
 AN 93254000 MEDLINE
 DN 93254000 PubMed ID: 8487502
 TI Carbamoylphosphate synthetase deficiency in an adult: deterioration due
 to
 administration of valproic acid.
 AU Horiuchi M; Imamura Y; Nakamura N; Maruyama I; Saheki T
 CS Department of Internal Medicine, Faculty of Medicine, Kogoshima
 University, Japan.
 SO JOURNAL OF INHERITED METABOLIC DISEASE, (1993) 16 (1) 39-45.
 Journal code: FY8; 7910918. ISSN: 0141-8955.
 CY Netherlands
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 199306
 ED Entered STN: 19930618
 Last Updated on STN: 19980206
 Entered Medline: 19930607

L18 ANSWER 27 OF 320 MEDLINE
 AN 93165410 MEDLINE
 DN 93165410 PubMed ID: 8433884
 TI Effect of intravenous amino acids on protein metabolism of preterm
 infants

during the first three days of life.

AU Rivera A Jr; Bell E F; Bier D M
 CS Department of Pediatrics, University of Iowa, Iowa City 52242.
 NC HD07578 (NICHD)
 HD16974 (NICHD)
 HD20805 (NICHD)
 +
 SC PEDIATRIC RESEARCH, (1993 Feb; 33 (2) 106-11.
 Journal code: OWL; 0100714. ISSN: 0031-3998.
 CY United States
 DT (CLINICAL TRIAL)
 Journal; Article; (JOURNAL ARTICLE)
 (RANDOMIZED CONTROLLED TRIAL)
 LA English
 FS Priority Journals
 EM 199303
 ED Entered STN: 19930402
 Last Updated on STN: 19970203
 Entered Medline: 19930317

L18 ANSWER 28 OF 320 MEDLINE
 AN 93106347 MEDLINE
 DN 93106347 PubMed ID: 1468606
 TI Obliteration of portal systemic shunts as therapy for hepatic encephalopathy in patients with non-cirrhotic portal hypertension.
 AU Ito T; Ikeda N; Watanabe A; Sue K; Kakio T; Mimura H; Tsuji T
 CS First Department of Internal Medicine, Okayama University Medical School, Japan.
 SO GASTROENTEROLOGIA JAPONICA, (1992 Dec) 27 (6) 759-64.
 Journal code: FHY; 0152744. ISSN: 0435-1339.
 CY Japan
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 199301
 ED Entered STN: 19930212
 Last Updated on STN: 19930212
 Entered Medline: 19930128

L18 ANSWER 29 OF 320 MEDLINE
 AN 93093724 MEDLINE
 DN 93093724 PubMed ID: 1459672
 TI Effect of three antibacterial drugs in lowering blood & stool ammonia production in hepatic encephalopathy.
 AU Alexander T; Thomas K; Cherian A M; Kanakasabapathy
 CS Department of Medicine, Christian Medical College, Vellore.
 SO INDIAN JOURNAL OF MEDICAL RESEARCH, (1992 Oct) 96 292-6.
 Journal code: GJF; 0374701. ISSN: 0971-5916.
 CY India
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 199301
 ED Entered STN: 19930129
 Last Updated on STN: 19930129
 Entered Medline: 19930113

L18 ANSWER 30 OF 320 MEDLINE
 AN 93054152 MEDLINE
 DN 93054152 PubMed ID: 1429294

TI Effect of intraperitoneal administration of lysine and methionine on mohair yield and quality in Angora goats.
 AU Sahlu T; Fernandez J M
 CS E. (Kika) de la Garza Institute for Goat Research, Langston University, Oklahoma 73050.
 SO JOURNAL OF ANIMAL SCIENCE, (1992 Oct) 70 (10) 3188-93.
 Journal code: HC7; 8603002. ISSN: 0021-8812.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 199212
 ED Entered STN: 19930122
 Last Updated on STN: 19930122
 Entered Medline: 19921201

L18 ANSWER 31 OF 320 MEDLINE
 AN 93038972 MEDLINE
 DN 93038972 PubMed ID: 1418064
 TI Crystalline lactulose in the therapy of hepatic cirrhosis. Evaluation of clinical and immunological parameters. Preliminary results.
 AU Vendemiale G; Palasciano G; Cirelli F; Altamura M; De Vincentiis A; Altomare E
 CS Istituto di Clinica Medica 1a, Universita di Bari, Italy.
 SO APZNEIMITTEL-FORSCHUNG, (1992 Jul) 42 (7) 969-72.
 Journal code: 91U; 0372660. ISSN: 0004-4172.
 CY GERMANY: Germany, Federal Republic of
 DT (CLINICAL TRIAL)
 Journal; Article; (JOURNAL ARTICLE)
 (RANDOMIZED CONTROLLED TRIAL)
 LA English
 FS Priority Journals
 EM 199211
 ED Entered STN: 19930122
 Last Updated on STN: 19950206
 Entered Medline: 19921120

L18 ANSWER 32 OF 320 MEDLINE
 AN 92192571 MEDLINE
 DN 92192571 PubMed ID: 1547989
 TI An autopsy case of citrullinemia type II complicated with chronic pancreatitis.
 AU Tatsumoto T; Yamamoto K; Kudo J; Kondo H; Shimamura R; Hirata Y; Ishibashi H; Niho Y; Toki N; Nakashima Y; +
 CS First Department of Internal Medicine, Faculty of Medicine, Kyushu University, Fukuoka.
 SO FUKUOKA IGAKU ZASSHI. FUKUOKA ACTA MEDICA, (1992 Jan) 83 (1) 43-50.
 Journal code: F8R; 9423321. ISSN: 0016-254X.
 CY Japan
 DT Journal; Article; (JOURNAL ARTICLE)
 LA Japanese
 FS Priority Journals
 EM 199204
 ED Entered STN: 19920509
 Last Updated on STN: 19920509
 Entered Medline: 19920423

L18 ANSWER 33 OF 320 MEDLINE
 AN 92184210 MEDLINE

DN 92184210 PubMed ID: 1544625
 TI **Treatment** of hyperammonemia with carbamylglutamate in rats.
 AU Grau E; Felipe V; Minana M D; Grisolia S
 CS Instituto de Investigaciones Citologicas, Centro Asociado del CSIC, Valencia, Spain.
 SO HEPATOLOGY, (1992 Mar) 15 (3) 446-8.
 Journal code: GBZ; 8302946. ISSN: 0270-9139.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 199204
 ED Entered STN: 19920424
 Last Updated on STN: 19980206
 Entered Medline: 19920414

L18 ANSWER 34 OF 320 MEDLINE
 AN 92139736 MEDLINE
 DN 92139736 PubMed ID: 1779615
 TI N-acetylglutamate synthetase deficiency: clinical and laboratory observations.
 AU Pandya A I; Koch R; Hommes F A; Williams J C
 CS Division of Medical Genetics, Childrens Hospital of Los Angeles, CA 90054.
 SO JOURNAL OF INHERITED METABOLIC DISEASE, (1991) 14 (5) 685-90.
 Journal code: KY8; 7910918. ISSN: 0141-8955.
 CY Netherlands
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 199203
 ED Entered STN: 19920329
 Last Updated on STN: 19990129
 Entered Medline: 19920310

L18 ANSWER 35 OF 320 MEDLINE
 AN 92089579 MEDLINE
 DN 92089579 PubMed ID: 1751811
 TI Rifaximin versus neomycin on hyperammonemia in chronic portal systemic encephalopathy of cirrhotics. A double-blind, randomized trial.
 AU Pedretti G; Calzetti C; Missale G; Fiaccadori F
 CS Cattedra di Malattie Infettive, Universita di Parma, Italy.
 SO ITALIAN JOURNAL OF GASTROENTEROLOGY, (1991 May) 23 (4) 175-8.
 Journal code: A9I; 8000544. ISSN: 0392-0623.
 CY Italy
 DT (CLINICAL TRIAL)
 Journal; Article; (JOURNAL ARTICLE)
 (RANDOMIZED CONTROLLED TRIAL)
 LA English
 FS Priority Journals
 EM 199201
 ED Entered STN: 19920216
 Last Updated on STN: 19920216
 Entered Medline: 19920128

L18 ANSWER 36 OF 320 MEDLINE
 AN 91361907 MEDLINE
 DN 91361907 PubMed ID: 2103690
 TI Ammonia metabolism in normal and portacaval-shunted rats.
 AU Cooper A J

CS Department of Biochemistry, Cornell University Medical College, New York,
NY 10021.
NC DK-16739 (NIDDK)
SQ ADVANCES IN EXPERIMENTAL MEDICINE AND BIOLOGY, (1990) 272 23 46. Ref:
126

Journal code: 2LU; 0121103. ISSN: 0065-2598.

CY United States
DT Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW;
(REVIEW, TUTORIAL)

LA English

FS Priority Journals

EM 199110

ED Entered STN: 19911027

Last Updated on STN: 19911027

Entered Medline: 19911004

L18 ANSWER 37 OF 320 MEDLINE

AN 91347467 MEDLINE

DN 91347467 PubMed ID: 1831712

TI Propionic acidemia: one case report.

AU Yuan L

CS Institute of Basic Medical Sciences, Beijing.

SQ CHUNG-KUO I HSUEH KO HSUEH YUAN HSUEH PAO ACTA ACADEMIAE MEDICINAE
SINICAE, (1991 Apr) 13 (2) 141-3.

Journal code: CZS; 8006230. ISSN: 1000-503X.

CY China

DT Journal; Article; (JOURNAL ARTICLE)

LA Chinese

FS Priority Journals

EM 199110

ED Entered STN: 19911020

Last Updated on STN: 19911020

Entered Medline: 19911003

L18 ANSWER 38 OF 320 MEDLINE

AN 91249366 MEDLINE

DN 91249366 PubMed ID: 2095300

TI Hyperaminoacidemia in epileptic children treated with valproic acid.

AU Castro-Gago M; Rodrigo-Saez E; Novo-Rodriguez I; Camina M F;

Rodriguez-Segade S

CS Departamento de Pediatria, Hospital Clinico Universitario, Universidad de
Santiago de Compostela, Spain.

SQ CHILDS NERVOUS SYSTEM, (1990 Dec) 6 (8) 434-6.

Journal code: CNV; 8503227. ISSN: 0256-7040.

CY GERMANY: Germany, Federal Republic of

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 199107

ED Entered STN: 19910728

Last Updated on STN: 19910728

Entered Medline: 19910705

L18 ANSWER 39 OF 320 MEDLINE

AN 91231402 MEDLINE

DN 91231402 PubMed ID: 2030076

TI Valproate in the treatment of persistent chronic daily headache.

An open label study.

AU Mathew N T; Ali S

CS Houston Headache Clinic, TX 77004.
 SO HEADACHE, (1991 Feb) 31 (2) 71-4.
 Journal code: G1N; 2985091R. ISSN: 0017-8748.
 CY United States
 DT (CLINICAL TRIAL)
 Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 199106
 ED Entered STN: 19910707
 Last Updated on STN: 19910707
 Entered Medline: 19910617

L18 ANSWER 40 OF 320 MEDLINE
 AN 91149785 MEDLINE
 DN 91149785 PubMed ID: 2291040
 TI [Late diagnosis of congenital argininemia during administration of sodium valproate].
 Argininemie congenitale diagnostiquee tardivement a l'occasion de la prescription de valproate de sodium.
 AU Christmann D; Hirsch E; Mutschler V; Collard M; Marescaux C; Colombo J P
 CS Clinique Medicale A, Hopital Civil, Strasbourg, France.
 SO REVUE NEUROLOGIQUE, (1990) 146 (12) 764-6. Ref: 20
 Journal code: SU9; 2984779R. ISSN: 0035-3787.
 CY France
 DT Journal; Article; (JOURNAL ARTICLE)
 General Review; (REVIEW)
 (REVIEW OF REPORTED CASES)
 LA French
 FS Priority Journals
 EM 199104
 ED Entered STN: 19910419
 Last Updated on STN: 19910419
 Entered Medline: 19910404

L18 ANSWER 41 OF 320 MEDLINE
 AN 91143354 MEDLINE
 DN 91143354 PubMed ID: 2288226
 TI Continuous monitoring of intracranial pressure in Reye's syndrome--5 years experience.
 AU Chi C S; Law K L; Wong T T; Su G Y; Lin N
 CS Department of Pediatrics, Veterans General Hospital, Taipei Taiwan, Republic of China.
 SO ACTA PAEDIATRICA JAPONICA, (1990 Aug) 32 (4) 426-34.
 Journal code: 1L3; 0370357. ISSN: 0374-5600.
 CY Japan
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 199103
 ED Entered STN: 19910412
 Last Updated on STN: 19980206
 Entered Medline: 19910328

L18 ANSWER 42 OF 320 MEDLINE
 AN 90151770 MEDLINE
 DN 90151770 PubMed ID: 2303075
 TI A case of carbamylphosphate synthetase I deficiency associated with secondary carnitine deficiency--L-carnitine treatment of CPS-I

deficiency
AU Mori T; Tsuchiya A; Nagai K; Nagao M; Oyanagi K; Tsugawa S
CS Department of Paediatrics, Sapporo Medical College, Japan.
SO EUROPEAN JOURNAL OF PEDIATRICS, (1990 Jan) 149 (4) 272-4.
Journal code: END; 7603873. ISSN: 0340-6199.
CY GERMANY, WEST: Germany, Federal Republic of
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199003
ED Entered STN: 19900601
Last Updated on STN: 19980206
Entered Medline: 19900321

L18 ANSWER 43 OF 320 MEDLINE
AN 90125403 MEDLINE
DN 90125403 PubMed ID: 2692930
TI An autopsied case of type II citrullinemia--transient effectiveness with
either citrate or benzoate to the consciousness disturbance.
AU Ujihira N; Ohya M; Mabuchi C; Indo T; Hashizume Y
SO RINSHO SHINKAIKAKU. CLINICAL NEUROLOGY, (1989 Apr) 29 (4) 436-41. Ref:
26
Journal code: DF2; 0417466. ISSN: 0009-918X.
CY Japan
DT Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW OF REPORTED CASES)
LA Japanese
FS Priority Journals
EM 199003
ED Entered STN: 19900328
Last Updated on STN: 19990129
Entered Medline: 19900312

L18 ANSWER 44 OF 320 MEDLINE
AN 90004150 MEDLINE
DN 90004150 PubMed ID: 2529084
TI [Metadoxine in alcohol-related pathology].
La metadoxina nella patologia alcol-correlata.
AU Santoni S; Corradini P; Zocchi M; Camarri F
SO CLINICA TERAPEUTICA, (1989 Jul 31) 130 (2) 115-22.
Journal code: DKN; 0372604. ISSN: 0009-9074.
CY Italy
DT Journal; Article; (JOURNAL ARTICLE)
LA Italian
FS Priority Journals
EM 198911
ED Entered STN: 19900328
Last Updated on STN: 19900328
Entered Medline: 19891121

L18 ANSWER 45 OF 320 MEDLINE
AN 89136532 MEDLINE
DN 89136532 PubMed ID: 2906283
TI Effects of varying doses of methionine sulfoximine on liver glutamine
synthetase activity and time courses of blood and urinary nitrogenous
compounds in the chicken (Gallus domesticus).
AU Karasawa Y; Nakata C
CS Laboratory of Animal Nutrition and Feed Science, Faculty of Agriculture,
Shinshu University, Nagano-ken, Japan.

SO COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY. B: COMPARATIVE BIOCHEMISTRY,
(1988) 91 (4) 789-92.
Journal code: DNV; 2984730P. ISSN: 0305-0491.
CY ENGLAND: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 198903
ED Entered STN: 19900306
Last Updated on STN: 19980206
Entered Medline: 19890330

L18 ANSWER 46 OF 320 MEDLINE
AN 89066362 MEDLINE
DN 89066362 PubMed ID: 3254697
TI Effects of corticosteroid **treatment** on survival time in dogs
with chronic hepatitis: 151 cases (1977-1985).
CM Comment in: J Am Vet Med Assoc. 1989 Jan 15;194(2):164
AU Strombeck D R; Miller L M; Harrold D
CS Department of Medicine, School of Veterinary Medicine, University of
California, Davis 95616.
SO JOURNAL OF THE AMERICAN VETERINARY MEDICAL ASSOCIATION, (1988 Nov 1) 193
(9) 1109-13.
Journal code: HAV; 7503067. ISSN: 0003-1488.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 198901
ED Entered STN: 19900308
Last Updated on STN: 19900308
Entered Medline: 19890118

L18 ANSWER 47 OF 320 MEDLINE
AN 88147917 MEDLINE
DN 88147917 PubMed ID: 3344727
TI Venous, arterial, and arterialized-venous **blood ammonia**
levels and their relationship to hepatic encephalopathy after
propranolol.
AU Snady H; Lieber C S
CS Section of Liver Disease and Nutrition, Veterans Administration Medical
Center, Bronx, New York.
NC AA03508 (NIAAA)
SO AMERICAN JOURNAL OF GASTROENTEROLOGY, (1988 Mar) 83 (3) 249-55.
Journal code: 3HE; 0421030. ISSN: 0002-9270.
CY United States
DT (CLINICAL TRIAL)
(CONTROLLED CLINICAL TRIAL)
Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 198804
ED Entered STN: 19900308
Last Updated on STN: 19970203
Entered Medline: 19880407

L18 ANSWER 48 OF 320 MEDLINE
AN 88137801 MEDLINE
DN 88137801 PubMed ID: 3125077
TI Enterococcus lactic acid bacteria strain SF68 and lactulose in hepatic

encephalopathy: a controlled study.
AU Loguercio C; Del Vecchio Blanco C; Coltorti M
CS Istituto di Medicina Generale e Metodologia Clinica, I Facolta di
Medicina
e Chirurgia, University of Naples, Italy.
SO JOURNAL OF INTERNATIONAL MEDICAL RESEARCH, (1987 Nov-Dec) 15 (6) 335-43.

Journal code: E62; 0346411. ISSN: 0300-0605.
CY ENGLAND: United Kingdom
DT (CLINICAL TRIAL)
Journal; Article; (JOURNAL ARTICLE)
(RANDOMIZED CONTROLLED TRIAL)
LA English
FS Priority Journals
EM 198804
ED Entered STN: 19900308
Last Updated on STN: 19950206
Entered Medline: 19880407

L13 ANSWER 49 OF 320 MEDLINE
AN 88086592 MEDLINE
DN 88086592 PubMed ID: 3693180
TI Muscle and **blood ammonia** and lactate responses to
prolonged exercise with hyperoxia.
AU Graham T E; Pedersen P K; Saltin B
CS August Krogh Institute, Copenhagen, Denmark.
SO JOURNAL OF APPLIED PHYSIOLOGY, (1987 Oct) 63 (4) 1457-62.
Journal code: HEG; 8502536. ISSN: 8750-7587.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 198802
ED Entered STN: 19900305
Last Updated on STN: 19970203
Entered Medline: 19880212

L18 ANSWER 50 OF 320 MEDLINE
AN 88081972 MEDLINE
DN 88081972 PubMed ID: 3319453
TI Lactitol, a second-generation disaccharide for **treatment** of
chronic portal-systemic encephalopathy. A double-blind, crossover,
randomized clinical trial.
AU Uribe M; Toledo H; Perez F; Vargas F; Gil S; Garcia-Ramos G; Ravelli G P;
Guevara L
CS Gastrointestinal Division, Instituto Nacional de la Nutricion Salvador
Zubiran, Mexico, D.F.
SO DIGESTIVE DISEASES AND SCIENCES, (1987 Dec) 32 (12) 1345-53.
Journal code: EAD; 7902782. ISSN: 0163-2116.
CY United States
DT (CLINICAL TRIAL)
Journal; Article; (JOURNAL ARTICLE)
(RANDOMIZED CONTROLLED TRIAL)
LA English
FS Abridged Index Medicus Journals; Priority Journals
EM 198802
ED Entered STN: 19900305
Last Updated on STN: 19950206
Entered Medline: 19880202

=> s l18 and xylose?

L19 0 L18 AND XYLOSE?

=> s l18 and xylobiose?

L20 0 L18 AND XYLOBIOSE?

=> s l18 and carbohydrate?

L21 2 L18 AND CARBOHYDRATE?

=> s l18 and sugar?

L22 6 L18 AND SUGAR?

=> d l21 abs ibib 1-2

L21 ANSWER 1 OF 2 MEDLINE

AB Seven girls (age 5 to 10 years) with Rett syndrome were investigated extensively. In 6 patients elevations of blood pyruvate were found. Blood lactate levels were marginally elevated. Two patients had variably elevated blood glucose levels. Metabolic studies were otherwise normal apart from minimally elevated **blood ammonia** levels in 3 of 5 patients tested, 2 of whom were on valproic acid. All 7 patients had anticonvulsant resistant seizures. EEG changes included generalized slowing and multifocal spike wave discharges, and pseudo-periodic burst-suppression patterns during sleep. Respiratory monitoring revealed apneic episodes only during the waking record. Six patients were below

the

5th centile for weight despite normal caloric intake. **Treatment** with ketogenic diets, using medium chain triglyceride (MCT) oil when possible, has improved seizure control in the 5 patients who could tolerate the diet. Slight behavioral and motor improvement has occurred

in

these 5 patients and 6 of 7 patients on high fat diets have gained

weight.

With a possible defect in **carbohydrate** metabolism and a difficult seizure disorder, use of a ketogenic diet is logical and

appears

to produce clinical benefit in patients with Rett Syndrome.

ACCESSION NUMBER: 86239363 MEDLINE

DOCUMENT NUMBER: 86239363 PubMed ID: 3087185

TITLE: Therapeutic effects of a ketogenic diet in Rett syndrome.

AUTHOR: Haas R H; Rice M A; Trauner D A; Merritt T A

CONTRACT NUMBER: RR00827 (NCRR)

SOURCE: AMERICAN JOURNAL OF MEDICAL GENETICS. SUPPLEMENT, (1986) 1
225-46.

Journal code: AJM; 8706133. ISSN: 1040-3787.

PUB. COUNTRY: United States

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 198606

ENTRY DATE: Entered STN: 19900321

Last Updated on STN: 19970203

Entered Medline: 19860627

L21 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2002 ACS

AB Four diets, straw, straw + urea, straw + urea and sucrose, and straw + urea but with a different mineral supplement than fed with diets 1-3, were

compared using rumen-fistulated cows. Urea or urea and sucrose were

dissolved in water and administered as continuous ruminal infusions. Increases of approx. 29% in dry matter digestibility and 17% cellulose digestibility were obtained with urea but not with urea sucrose. Bacterial protein in rumen fluid was increased by an av. of 63% by both urea and urea-sucrose **treatments**. Rumen NH₃ and blood urea levels were increased 10-fold and 3 fold, resp., by the urea infusion,

but the response to urea-sucrose was only 50% as great. Sucrose appeared to be used as an energy source in preference to the straw, as indicated by the increased rate of urea utilization, but tended to depress intake and digestibility of straw as compared with urea only. Dry matter intake, N balance, and total short-chain fatty acids were not significantly altered by the **treatments**, but all showed response trends. Effects of dietary **treatments** on proportions of short-chain fatty acids in the rumen were not consistent.

ACCESSION NUMBER: 1972:84716 CAPLUS
DOCUMENT NUMBER: 76:84716
TITLE: Effects of ruminal infusions of urea and urea-sucrose on utilization of oat straw by cows
AUTHOR(S): Winter, R. A.; Pigden, W. J.
CORPORATE SOURCE: Res. Branch, Canada Dep. Agric., Ottawa, Ont., Can.
SOURCE: Can. J. Anim. Sci. (1971), 51(3), 777-81
CODEN: CNJNAT
DOCUMENT TYPE: Journal
LANGUAGE: English

=> d 122 abs ibib 1-6

L22 ANSWER 1 OF 6 MEDLINE

AB BACKGROUND. Lactitol (beta-galactosido-sorbitol), a novel disaccharide analogue of lactulose, has been suggested as an alternative to lactulose in the **treatment** of portosystemic encephalopathy (PSE) in Western country. In order to assess its therapeutic effect and adverse reaction in PSE in the Chinese, we conducted this study. METHODS. Forty-one patients with PSE were enrolled in this study. Patients were randomly divided into 2 groups to receive lactitol (n = 21) or lactulose (n = 20) for 5 days. The doses of both drugs were adjusted to keep daily bowel movement of 2 to 3 times. The PSE index (mental state, EEG, asterixis, number connection test [NCT], and ammonia) was evaluated in each patient before and after **treatment**. Daily doses of lactitol and lactulose, stool frequency, and side effect were recorded. RESULTS. The mean dose of lactitol used was 66.3 +/- 36.4 gm and that of lactulose was 56.9 +/- 32.1 ml of lactulose. The majority of patients (37/41)

gained

clear consciousness after 5 days' **treatment**. In the lactitol group, blood ammonia, EEG, NCT, asterixis, mental status and PSE index before **treatment** were 208 +/- 62 micrograms/ml, 2.9 +/- 0.8, 4.0 +/- 0.0, 2.7 +/- 1.5, 2.9 +/- 0.7 and

77.1

+/- 10.5, respectively. All parameters decreased significantly after 5 days' **treatment** (119 +/- 50 micrograms/ml, 1.1 +/- 1.0, 2.9 +/- 1.2, 1.7 +/- 1.1, 0.7 +/- 0.7, and 34.4 +/- 16.0, p < 0.05). The

lactulose

group had the similar results. However, the improvement of PSE index

after

therapy in the lactitol group was significantly higher than that in the lactulose group (42.7 +/- 19.3 vs 31.1 +/- 13.7, p < 0.05). In addition, more patients in the lactitol group than in the lactulose group (67% vs 20%, p = 0.003) favored the taste of their assigned drugs. No patient who

received lactitol experienced any side effects; however, six patients treated with lactulose complained of meteorism and flatulence, and four complained of nausea. CONCLUSIONS. Both lactitol and lactulose are effective in the **treatment** of PSE, though the effect of lactitol seems slightly superior to that of lactulose in our study. Lactitol is more acceptable to our patients due to better palatability and less side effects. Lactitol is another good alternative in the **treatment** of PSE.

ACCESSION NUMBER: 95227958 MEDLINE
DOCUMENT NUMBER: 95227958 PubMed ID: 7712392
TITLE: **Treatment** of porto-systemic encephalopathy with lactitol versus lactulose: a randomized controlled study.
AUTHOR: Pai C H; Huang Y S; Jeng W C; Chan C Y; Lee S D
CORPORATE SOURCE: Department of Medicine, Veterans General Hospital-Taipei, Taiwan, R.O.C.
SOURCE: CHUNG-HUA I HSUEH TSA CHIH [CHINESE MEDICAL JOURNAL], (1995 Jan) 55 (1) 31-6.
PUB. COUNTRY: Journal code: CHQ; 0005327. ISSN: 0578-1337. TAIWAN: Taiwan, Province of China (CLINICAL TRIAL) Journal; Article; (JOURNAL ARTICLE) (RANDOMIZED CONTROLLED TRIAL)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199505
ENTRY DATE: Entered STN: 19950524
Last Updated on STN: 19950524
Entered Medline: 19950518

L22 ANSWER 2 OF 6 MEDLINE

AB To investigate the efficacy and the acceptability of different doses of lactitol in patients with subclinical hepatic encephalopathy, 28 patients with cirrhosis were enrolled in a controlled clinical trial comparing 5-month therapies with lactitol at two different doses: 0.3 and 0.5 g/kg bw per day. This period was followed by 1 month of recovery. Patients were monitored with venous **blood ammonia** determination, three psychometric tests, clinical evaluation of mental status and EEG. The porto-systemic encephalopathy index of Conn was determined periodically. Twenty-two patients completed the trial (11 for each dose of lactitol). Both doses of lactitol decreased plasma ammonia levels and improved the porto-systemic encephalopathy index. The higher dose was more effective in improving performance in the psychometric tests. After the period of recovery, both the porto-systemic encephalopathy index and the psychometric test scores returned to pretreatment values. Lactitol was tolerated well by patients. Three patients given the higher dose reported periodic intestinal discomfort, but did not stop taking lactitol or reduce the dosage; no side-effects were reported by the patients taking the lower dose. These results indicate that lactitol in doses ranging from 0.3 to 0.5 g/kg bw is a well-tolerated and effective **treatment** for subclinical encephalopathy.

ACCESSION NUMBER: 95213559 MEDLINE
DOCUMENT NUMBER: 95213558 PubMed ID: 7699233
TITLE: Effects of long-term administration of low-dose lactitol in

patients with cirrhosis but without overt encephalopathy.
 AUTHOR: Salerno F; Moser P; Maggi A; Vitaliani G; Benetti G
 CORPORATE SOURCE: Istituto di Medicina Interna, Università di Milano,
 Italy.
 SOURCE: JOURNAL OF HEPATOLOGY, (1994 Dec) 21 (6) 1092 6.
 Journal code: IBS; 8503886. ISSN: 0168-8278.
 PUB. COUNTRY: Denmark
 (CLINICAL TRIAL)
 (CONTROLLED CLINICAL TRIAL)
 Journal; Article; (JOURNAL ARTICLE)
 (RANDOMIZED CONTROLLED TRIAL)
 LANGUAGE: English
 FILE SEGMENT: Priority Journals
 ENTRY MONTH: 199505
 ENTRY DATE: Entered STN: 19950510
 Last Updated on STN: 19990129
 Entered Medline: 19950503

L22 ANSWER 3 OF 6 MEDLINE

AB A double blind crossover trial was performed to test the therapeutic
 usefulness and safety of lactitol, a beta-galactoside sorbitol, against
 lactose in 18 patients with chronic portal-systemic encephalopathy (PSE).
 The study included four periods: two for washout and two for lactitol and
 lactose administration. During washout periods, which lasted two weeks
 each, patients were stabilized with neomycin plus milk of magnesia.
 Lactitol and lactose were administered during four weeks each. Ten
 patients were randomly assigned to receive lactose (group A) and eight
 patients to receive lactitol (group B) first. PSE parameters, ie, mental
 state, number connection test performance, asterixis and **blood**
ammonia levels were assessed fortnightly. Electroencephalographic
 tracings and stool pHs were evaluated at the end of each study period.
 After the first administration of lactose and lactitol, no statistically
 significant differences in PSE parameters were found. At the same stage,
 a significant stool acidification (P less than 0.05) was detected. It is
 concluded that lactitol seems to be safe and efficacious in treating
 patients with chronic PSE.

ACCESSION NUMBER: 88081972 MEDLINE
 DOCUMENT NUMBER: 88081972 PubMed ID: 3319453
 TITLE: Lactitol, a second-generation disaccharide for
treatment of chronic portal-systemic
 encephalopathy. A double-blind, crossover, randomized
 clinical trial.
 AUTHOR: Uribe M; Toledo H; Perez F; Vargas F; Gil S; Garcia-Ramos
 G; Ravelli G P; Guevara L
 CORPORATE SOURCE: Gastrointestinal Division, Instituto Nacional de la
 Nutricion Salvador Zubiran, Mexico, D.F.
 SOURCE: DIGESTIVE DISEASES AND SCIENCES, (1987 Dec) 32 (12)
 1345-53.
 Journal code: EAD; 7902782. ISSN: 0163-2116.
 PUB. COUNTRY: United States
 (CLINICAL TRIAL)
 Journal; Article; (JOURNAL ARTICLE)
 (RANDOMIZED CONTROLLED TRIAL)
 LANGUAGE: English
 FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals
 ENTRY MONTH: 198802
 ENTRY DATE: Entered STN: 19900305
 Last Updated on STN: 19950206
 Entered Medline: 19880202

L22 ANSWER 4 OF 6 MEDLINE

AB Lactulose is currently the drug of choice for the **treatment** of hepatic encephalopathy. It is, however, only available as a syrup which is

contaminated with other **sugars**. Consequently patients may express aversion to its excessively sweet taste and many experience nausea

because of its hyperosmolarity. Lactitol is a disaccharide analogue of lactulose which can be produced as a pure crystalline powder with a low relative sweetness. Theoretically it should have the same therapeutic effects as lactulose but fewer side effects. Five patients with chronic hepatic encephalopathy on maintenance lactulose were monitored

clinically,

psychometrically, and by measurement of venous **blood ammonia**, electroencephalogram mean cycle frequency, and cerebral blood flow during three months **treatment** with lactulose and a similar period on lactitol. Lactitol was at least as efficacious as lactulose but was more acceptable because its cathartic effect was more predictable, its formulation was more convenient and its less sweet taste preferred. Lactitol is the ideal successor to lactulose for **treatment** of this condition.

ACCESSION NUMBER: 85155704 MEDLINE
DOCUMENT NUMBER: 85155704 PubMed ID: 3979914
TITLE: Lactitol in the **treatment** of chronic hepatic encephalopathy: an open comparison with lactulose.
AUTHOR: Lanthier P L; Morgan M Y
SOURCE: GUT, (1985 Apr) 26 (4) 415-20.
JOURNAL code: FVT; 2985108R. ISSN: 0017-5749.
PUB. COUNTRY: ENGLAND: United Kingdom
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals
ENTRY MONTH: 198505
ENTRY DATE: Entered STN: 19900320
Last Updated on STN: 19900320
Entered Medline: 19850509

L22 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2002 ACS

AB Healthy young male subjects exercised to exhaustion on a bicycle ergometer

at a work load requiring .apprx.75% of max. O uptake. This work test was performed after placebo administration or after ingestion of 6 g of K-Mg aspartate over a 24-h period, using a double-blind protocol. Exhaustion was reached after 82.7 min following aspartate **treatment** and after 85.4 min following the placebo. No differences in the blood glucose, lactate, or NH₃ or in the plasma free fatty acid concn. between the 2 **treatments** were obsd. The respiratory exchange ratio was the same on both occasions. Thus, no beneficial effect of oral aspartate administration on work capacity in man is obsd., and the metabolic processes that occur during exercise apparently are not influenced by

this

treatment.

ACCESSION NUMBER: 1983:502873 CAPLUS
DOCUMENT NUMBER: 99:102873
TITLE: The effects of oral administration of salts of aspartic acid on the metabolic response to prolonged exhausting exercise in man
AUTHOR(S): Maughan, R. J.; Sadler, D. J. M.
CORPORATE SOURCE: Dep. Surg., Univ. Med. Sch., Foresterhill/Aberdeen,

AB9 2ZD, UK
 SOURCE: Int. J. Sports Med. (1983), 4(2), 119-23
 CODEN: IJSMDA
 DOCUMENT TYPE: Journal
 LANGUAGE: English

L22 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2002 ACS

AB The plasma ammonia concn. was pos. correlated to the severity of hepatic encephalopathy. A protein-rich (120 g protein/day) diet resulted in a 2-fold increase in **blood ammonia** and a 3-fold increase in serum phenols in patients with cirrhosis without portal hypertension, whereas a 2.5-fold increase in **blood ammonia** and a 4-fold increase in serum phenols was obsd. in patients with cirrhosis with portal hypertension when compared with normal values. Ethanol ingestion (60 g) caused transient hyperammonemia and hypertriglyceridemia in healthy subjects, whereas in patients with fatty liver, these elevations were prolonged. Ethanol withdrawal resulted in a rapid return of to previously elevated plasma ammonia and gamma-glutamyltransferase values to normal. Distaneurin decreased the elevated plasma ammonia, glucose, and lactate levels in patients with delirium tremens. Pathol. methionine degrdn. products were present in the serum and cerebrospinal fluid of liver cirrhosis patients and correlated with disease severity. Cysteine, taurine, and arom. amino acids were also increased in the serum and cerebrospinal fluid of hepatic coma patients. The toxic effects of the arom. amino acid metabolites and the **treatment** of hepatic encephalopathy is discussed.

ACCESSION NUMBER: 1979:521834 CAPLUS
 DOCUMENT NUMBER: 91:121834
 TITLE: Amino acids and their toxic metabolites in serum, cerebrospinal fluid and urine in hepatic encephalopathy
 AUTHOR(S): Mueting, Dieter; Reikowski, Johanna
 CORPORATE SOURCE: Heinz-Kalk-Klin. Inn. Med. Gastroenterol., Bad Kissingen, Fed. Rep. Ger.
 SOURCE: Aminosaeuren, Ammoniak Hepatische Enzephalopathie, Int. Ammoniak-Symp., 3rd (1978), Meeting Date 1977, 9-21. Editor(s): Wewalka, Friedrich; Dragosics, Brigitte. Fischer: Stuttgart, Fed. Rep. Ger.
 CODEN: 41FTA7
 DOCUMENT TYPE: Conference
 LANGUAGE: German

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